

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

**1.1. Product identifier**

Product form : Mixture  
Product name : PHAGO'RUB GEL SPS  
Product code : 1592  
Product group : Mixture

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

**1.2.1. Relevant identified uses**

Main use category : Professional use  
Use of the substance/mixture : hydroalcoholic gel

**1.2.2. Uses advised against**

No additional information available

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

**Manufacturer**

Christeyns France S.A.  
rue de la Maladrie 31  
44120 VERTOU - France  
T +33 (0)240 80 27 27 - F +33 (0)240 03 09 73  
[health-security@christeyns.fr](mailto:health-security@christeyns.fr) - [www.christeyns.com](http://www.christeyns.com)

**Distributor**

Casoria Company Ltd.  
1 Farnham Street  
H12 A9K0 Cavan - Ireland  
T 00353 49 4361869 - F 00353 49 436 1869  
[sds@casoria.ie](mailto:sds@casoria.ie) - [www.casoria.ie](http://www.casoria.ie)

**Distributor**

Christeyns UK Ltd.  
Rutland Street  
Bradford BD4 7EA - United Kingdom  
T +44 (0)1274 39 32 86 - F +44 (0)1274 30 91 43  
[info@christeyns.be](mailto:info@christeyns.be) - [www.christeyns.com](http://www.christeyns.com)

**Distributor**

Christeyns Technologies Ltd.  
Mazars, Block 3, Harcourt Centre, Harcourt Road  
2 Dublin - Ireland  
T Tel: +353 1 8146022

**Manufacturer**

Christeyns Food Hygiene Ltd.  
2, Cameron Court, Winwick Quay  
WA2 8RE Warrington - United Kingdom  
T +44(0)1925 234696 - F +44(0)1925 234693  
[UK-foodinfo@christeyns.com](mailto:UK-foodinfo@christeyns.com) - [www.christeyns.com](http://www.christeyns.com)

**1.4. Emergency telephone number**

| Country        | Official advisory body   | 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>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham        | 0344 892 0111  |         |

**SECTION 2: Hazards identification**

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Flam. Liq. 2 H225  
Eye Irrit. 2 H319  
Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

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

Highly flammable liquid and vapour. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

CLP Signal word

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P273 - Avoid release to the environment.  
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.  
P403+P235 - Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

| Component               |   |
|-------------------------|---|
| Ethanol (64-17-5)       | 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 |
| tetradecanol (112-72-1) | 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 |

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 is 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

## 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] |
|---|--|---------|---|
| Ethanol<br>(Active substance (Biocide))<br>substance with national workplace exposure limit(s)<br>(GB, IE); substance with a Community workplace exposure limit | CAS-no: 64-17-5<br>Einecs nr: 200-578-6<br>EG annex nr: 603-002-00-5<br>REACH-no: 01-2119457610-43 | ≥ 60    | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                        |
| tetradecanol  | CAS-no: 112-72-1<br>Einecs nr: 204-000-3<br>REACH-no: 01-2119485910-33                             | 0.1 – 1 | Eye Irrit. 2, H319<br>Aquatic Chronic 1, H410                   |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice

: In case of doubt or persistent symptoms, consult always a physician. See Heading 11.

Inhalation

: Move to fresh air.

Skin contact

: Rinse with water.

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.

Ingestion

: Rinse mouth out with water. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Acute effects inhalation

: No data available.

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Acute effects skin : No data available.  
Acute effects eyes : Causes serious eye irritation.  
Acute effects oral route : No data available.

### 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 : Foam, powder, carbon dioxide (CO<sub>2</sub>), water spray.

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

Fire hazard : Highly flammable liquid and vapour.

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

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

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

Prevent liquid from entering sewers, watercourses, underground or low areas.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Wash away remainder with plenty of water. Notify authorities if product enters sewers or public waters.

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. Do not eat, drink or smoke when using this product. Shower, eyes shower and water point in proximity. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Wear personal protective equipment. Avoid contact with eyes.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in original container. Protect from sunlight. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Storage temperature : 5 – 30 °C

Material(s) to avoid : Not determined.

Storage area : Store in a cool, well-ventilated place.

### 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

| Ethanol (64-17-5)                                  |                        |
|--|------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                        |
| IOEL TWA   | 1900 mg/m <sup>3</sup> |
| IOEL TWA [ppm]                                     | 1000 ppm               |

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| <b>Ethanol (64-17-5)</b>                             |                                       |
|--|---------------------------------------|
| IOEL STEL  | 9500 mg/m <sup>3</sup>                |
| IOEL STEL [ppm]                                      | 5000 ppm                              |
| <b>Ireland - Occupational Exposure Limits</b>        |                                       |
| Local name   | Ethanol [Ethyl alcohol]               |
| OEL STEL [ppm]                                       | 1000 ppm                              |
| Regulatory reference                                 | Chemical Agents Code of Practice 2020 |
| <b>United Kingdom - Occupational Exposure Limits</b> |                                       |
| 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 |

### 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

| <b>tetradecanol (112-72-1)</b>           |                          |
|--|--------------------------|
| <b>DNEL/DMEL (Workers)</b>               |                          |
| Acute - systemic effects, dermal         | 125 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation     | 220 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 125 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 220 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>    |                          |
| Acute - systemic effects, dermal         | 75 mg/kg bodyweight      |
| Acute - systemic effects, inhalation     | 65                       |
| Acute - systemic effects, oral           | 75 mg/kg bodyweight      |
| Long-term - systemic effects, oral       | 75 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 65 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 75 mg/kg bodyweight/day  |
| <b>PNEC (Water)</b>                      |                          |
| PNEC aqua (freshwater)                   | 0.00032 mg/l             |
| PNEC aqua (marine water)                 | 0.000032 mg/l            |
| <b>PNEC (Sediment)</b>                   |                          |
| PNEC sediment (freshwater)               | 0.36 mg/kg dwt           |
| PNEC sediment (marine water)             | 0.036 mg/kg dwt          |
| <b>PNEC (Soil)</b>                       |                          |
| PNEC soil                                | 0.28 mg/kg dwt           |
| <b>Ethanol (64-17-5)</b>                 |                          |
| <b>DNEL/DMEL (Workers)</b>               |                          |
| Acute - local effects, inhalation        | 1900 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 343 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 950 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>    |                          |
| Acute - local effects, inhalation        | 950 mg/m <sup>3</sup>    |

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| Ethanol (64-17-5)                        |                          |
|--|--------------------------|
| Long-term - systemic effects, oral       | 87 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 114 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 206 mg/kg bodyweight/day |
| <b>PNEC (Water)</b>                      |                          |
| PNEC aqua (freshwater)                   | 0.96 mg/l                |
| PNEC aqua (marine water)                 | 0.79 mg/l                |
| <b>PNEC (Sediment)</b>                   |                          |
| PNEC sediment (freshwater)               | 3.6 mg/kg dwt            |
| PNEC sediment (marine water)             | 2.9 mg/kg dwt            |
| <b>PNEC (Soil)</b>                       |                          |
| PNEC soil                                | 0.63 mg/kg dwt           |
| <b>PNEC (Oral)</b>                       |                          |
| PNEC oral (secondary poisoning)          | 0.72 mg/kg food          |
| <b>PNEC (STP)</b>                        |                          |
| PNEC sewage treatment plant              | 580 mg/l                 |

### 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

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Not applicable

##### 8.2.2.2. Skin protection

###### Protective equipment:

Not required

###### Hand protection:

Not required

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Not required

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                     |                   |
|---------------------|-------------------|
| Physical state      | : Liquid          |
| Colour              | : Colourless.     |
| Physical state/form | : viscous liquid. |
| Odour               | : alcohol odour.  |
| Odour threshold     | : Not available   |
| Melting point/range | : Not applicable  |

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|   |                        |
|---|------------------------|
| Freezing point                                  | : Not available        |
| Boiling point/Boiling range                     | : > 35 °C              |
| Flammability                                    | : Not applicable       |
| Explosive limits                                | : Not available        |
| Lower explosive limit (LEL)                     | : Not available        |
| Upper explosive limit (UEL)                     | : Not available        |
| Flash point                                     | : = 20 °C              |
| Autoignition temperature                        | : Not available        |
| Decomposition temperature                       | : Not available        |
| pH  | : 7.5 – 8.5            |
| Viscosity, kinematic                            | : Not available        |
| Viscosity, dynamic                              | : ≈ 2500 cP            |
| Solubility                                      | : Water: 100 % 20°C    |
| Partition coefficient n-octanol/water (Log Kow) | : Not available        |
| Vapour pressure                                 | : Not available        |
| Vapour pressure at 50 °C                        | : Not available        |
| Density   | : Not available        |
| Relative density                                | : 0.863 – 0.873 (20°C) |
| Relative vapour density at 20 °C                | : Not available        |
| Particle size                                   | : Not applicable       |
| Particle size distribution                      | : Not applicable       |
| Particle shape                                  | : Not applicable       |
| Particle aspect ratio                           | : Not applicable       |
| Particle aggregation state                      | : Not applicable       |
| Particle agglomeration state                    | : Not applicable       |
| Particle specific surface area                  | : Not applicable       |
| Particle dustiness                              | : Not applicable       |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 72 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Do not mix with other products. Oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides.

## 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

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

|                                 |              |
|---------------------------------|--------------|
| LD50 oral rat                   | > 2000 mg/kg |
| LD50 dermal rabbit              | > 2000 mg/kg |
| LC50 Inhalation - Rat (Vapours) | > 20 mg/l/4h |

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|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not classified<br>pH: 7.5 – 8.5                 |
| Serious eye damage/irritation     | : Causes serious eye irritation.<br>pH: 7.5 – 8.5 |
| Respiratory or skin sensitisation | : Not classified                                  |
| Germ cell mutagenicity            | : Not classified                                  |
| Carcinogenicity                   | : Not classified                                  |

### Ethanol (64-17-5)

|                        |                            |
|------------------------|----------------------------|
| IARC group             | 1 - Carcinogenic to humans |
| Reproductive toxicity  | : Not classified           |
| STOT-single exposure   | : Not classified           |
| STOT-repeated exposure | : Not classified           |
| Aspiration hazard      | : Not classified           |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

### tetradecanol (112-72-1)

|                |                             |
|----------------|-----------------------------|
| NOEC (chronic) | > 0.001 ( $\leq$ 0.01) mg/l |
|----------------|-----------------------------|

### Ethanol (64-17-5)

|                 |            |
|-----------------|------------|
| LC50 - Fish [1] | 11200 mg/l |
| ErC50 algae     | 275 mg/l   |

### 12.2. Persistence and degradability

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

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Biochemical oxygen demand (BOD) | 0.1 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)    | 1.9 g O <sub>2</sub> /g substance |

### 12.3. Bioaccumulative potential

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

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Kow) | -0.3 |
|---|------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Component

|                         |   |
|-------------------------|---|
| Ethanol (64-17-5)       | 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 |
| tetradecanol (112-72-1) | 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. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                              |   |
|------------------------------|---|
| Regional legislation (waste) | : Follow the local regulation.                              |
| Waste treatment methods      | : Dispose of in accordance with relevant local regulations. |
| Additional information       | : Flammable vapours may accumulate in the container.        |
| Waste / unused products      | : Do not discharge into drains or the environment.          |




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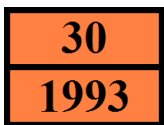
### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR   | IMDG  | IATA  |
|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |
| UN 1993   | UN 1993   | UN 1993   |
| <b>14.2. UN proper shipping name</b>  |   |   |
| FLAMMABLE LIQUID,<br>N.O.S.   | FLAMMABLE LIQUID,<br>N.O.S.   | Flammable liquid, n.o.s.  |
| <b>Transport document description</b>   |   |   |
| UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Ethanol),<br>3, III, (D/E)                   | UN 1993 FLAMMABLE<br>LIQUID, N.O.S. (Ethanol),<br>3, III                          | UN 1993 Flammable liquid, n.o.s. (Ethanol), 3, III                                  |
| <b>14.3. Transport hazard class(es)</b>   |   |   |
| 3   | 3   | 3   |
|  |  |  |
| <b>14.4. Packing group</b>  |   |   |
| III   | III   | III   |
| <b>14.5. Environmental hazards</b>  |   |   |
| Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No<br>Marine pollutant: No                      | Dangerous for the environment: No   |
| No supplementary information available  |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : F1  |
| Special provisions (ADR)                                  | : 274, 601  |
| Limited quantities (ADR)                                  | : 5I  |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001   |
| Mixed packing provisions (ADR)                            | : MP19  |
| Portable tank and bulk container instructions (ADR)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29   |
| Tank code (ADR)   | : LGBF  |
| Vehicle for tank carriage                                 | : FL  |
| Transport category (ADR)                                  | : 3   |
| Special provisions for carriage - Packages (ADR)          | : V12   |
| Special provisions for carriage - Operation (ADR)         | : S2  |
| Hazard identification number (Kemler No.)                 | : 30  |
| Orange plates   | :  |
| Tunnel code   | : D/E   |
| EAC code  | : •3YE  |

#### Transport by sea

|                                 |                 |
|---------------------------------|-----------------|
| Special provisions (IMDG)       | : 223, 274, 955 |
| Limited quantities (IMDG)       | : 5 L           |
| Packing instructions (IMDG)     | : LP01, P001    |
| IBC packing instructions (IMDG) | : IBC03         |



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### Air transport

|  |        |
|--|--------|
| PCA Limited quantities (IATA)                | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L  |
| PCA packing instructions (IATA)              | : 355  |
| PCA max net quantity (IATA)                  | : 60L  |
| CAO packing instructions (IATA)              | : 366  |
| CAO max net quantity (IATA)                  | : 220L |
| Special provisions (IATA)                    | : A3   |

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

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 : 72 %

Other information, restriction and prohibition regulations : Not affected by the conditions of restriction \_ ANNEXE XVII.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes |  |          |          |
|-----------------------|--|----------|----------|
| Section               | Changed item   | Change   | Comments |
| 2.2                   | Precautionary statements (CLP)   | Modified |          |
| 16                    | Abbreviations and acronyms   | Added    |          |
|                       | according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 | Added    |          |

| 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   |

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| Abbreviations and acronyms |  |
|----------------------------|--|
| 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   |
| 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  |

Other information : It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. Such information is actually to be best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other product(s). EC Regulation 1272/2008 and its amendments.

| Full text of H- and EUH-statements |   |
|------------------------------------|---|
| Aquatic Chronic 1                  | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 3                  | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2                       | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 2                       | Flammable liquids, Category 2                                     |
| H225                               | Highly flammable liquid and vapour.                               |
| H319                               | Causes serious eye irritation.                                    |
| H410                               | Very toxic to aquatic life with long lasting effects.             |
| H412                               | Harmful to aquatic life with long lasting effects.                |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] |      |                       |
|--|------|-----------------------|
| Flam. Liq. 2   | H225 | On basis of test data |
| Eye Irrit. 2   | H319 | Calculation method    |
| Aquatic Chronic 3  | H412 | Calculation method    |

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.