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| <h1>MSDS</h1> <p>MATERIAL SAFETY DATA SHEET</p>                                          |  | 0.1 Product                                                                                                                                                                                                                                                | <b>Hertshoorn geur</b>   |
|                                                                                          |  | 0.2 Status                                                                                                                                                                                                                                                 | Active                   |
|                                                                                          |  | 0.3 Version                                                                                                                                                                                                                                                | 1.1                      |
|                                                                                          |  | 0.4 Version date                                                                                                                                                                                                                                           | 29-09-2023               |
| <b>1. Identification of the product and of the company</b>                               |  |                                                                                                                                                                                                                                                            |                          |
| <b>1.1 Product identification</b>                                                        |  |                                                                                                                                                                                                                                                            |                          |
| Product name                                                                             |  | Hertshoorn geur                                                                                                                                                                                                                                            |                          |
| Trade name                                                                               |  | Hertshoorn geur / Hirschhornduft / Hartshorn odour / Odeur de corne de cerf                                                                                                                                                                                |                          |
| Article code                                                                             |  | HERT0005 / HERT0500                                                                                                                                                                                                                                        |                          |
| Chemical description                                                                     |  | Mixture                                                                                                                                                                                                                                                    |                          |
| UFI                                                                                      |  | 0H10-F03N-D00R-YAH3                                                                                                                                                                                                                                        |                          |
| REACH registration number                                                                |  | -                                                                                                                                                                                                                                                          |                          |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |  |                                                                                                                                                                                                                                                            |                          |
| Identified use(s)                                                                        |  | Professional use and consumer use.                                                                                                                                                                                                                         |                          |
| Use(s) advised against                                                                   |  | Not identified.                                                                                                                                                                                                                                            |                          |
| <b>1.3 Details of the supplier of the safety data sheet</b>                              |  |                                                                                                                                                                                                                                                            |                          |
| <b>Company identification</b>                                                            |  | Name                                                                                                                                                                                                                                                       | Hofman Animal Care B.V.  |
| <b>Contact</b>                                                                           |  | Address                                                                                                                                                                                                                                                    | De Leemkoele 2           |
|                                                                                          |  | Zip code                                                                                                                                                                                                                                                   | 7468 DM                  |
|                                                                                          |  | Town                                                                                                                                                                                                                                                       | Enter                    |
|                                                                                          |  | Country                                                                                                                                                                                                                                                    | The Netherlands          |
|                                                                                          |  | Telephone                                                                                                                                                                                                                                                  | +31 (0)548-545277        |
|                                                                                          |  | E-mail                                                                                                                                                                                                                                                     | info@hofmananimalcare.nl |
|                                                                                          |  | Website                                                                                                                                                                                                                                                    | www.hofmananimalcare.com |
| <b>1.4 Emergency telephone number</b>                                                    |  |                                                                                                                                                                                                                                                            |                          |
| <b>Emergency telephone number</b>                                                        |  | The Netherlands : National Poisoning Information Center - Bilthoven<br>TEL: +31(0)30/274.88.88<br>Belgium : Antipoison Center - Brussels<br>TEL: +32(0)70/245.245<br>(Only for the purpose of informing medical personnel in cases of acute intoxications) |                          |

| 2. Hazards identification          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| 2.1                                | <b><u>Classification of the substance or mixture</u></b><br><br><u>Classification according to Regulation (EC) no. 1272/2008:</u><br>Eye Irrit. 2; Serious eye damage/eye irritation, category 2; H319<br><br>The full text of the (EU)H-statements can be found in section 16.                                                                                                                                                                                              |
| 2.2                                | <b><u>Label elements</u></b><br><br><u>Labelling according to Regulation (EC) no. 1272/2008:</u>                                                                                                                                                                                                                                                                                                                                                                             |
| Hazardous component(s)             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hazard pictogram(s)                |                                                                                                                                                                                                                                                                                                                                                                                             |
| Signal word                        | Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hazard statements                  | H319 Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Supplemental hazard information    | EUH208 Contains isoeugenol, clove ext., black pepper oil. May produce an allergic reaction.                                                                                                                                                                                                                                                                                                                                                                                  |
| Precautionary measures             | - General<br>- Prevention<br>- Response                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                    | P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br>P264 Wash hands thoroughly after handling.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/attention. |
| 2.3                                | <b><u>Other hazards</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Results of PBT and vPvB assessment | Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$ .                                                                                                                                                                                                                                                                                                                                                                                           |
| Endocrine disrupting properties    | Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .                                                                                                                                                                                                                                                                                                                                                                                           |

| 3. Composition/information on ingredients                         |                                          |           |                                                                                                                                                                                                                                                                                                      |            |                                                                                 |                       |                                                                                                                  |
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| 3.1                                                               | <u>Substances</u>                        |           | Not relevant (mixture).                                                                                                                                                                                                                                                                              |            |                                                                                 |                       |                                                                                                                  |
| 3.2                                                               | <u>Mixtures</u>                          |           | The product does not contain any other ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.                                                                              |            |                                                                                 |                       |                                                                                                                  |
| Name component(s)                                                 |                                          | weight %  | CAS no.                                                                                                                                                                                                                                                                                              | EINECS no. | Index no.                                                                       | Reach no.             | Classification                                                                                                   |
| Tetrasodium pyrophosphate                                         |                                          | 1 – < 2.5 | 7722-88-5<br>13472-36-1                                                                                                                                                                                                                                                                              | 231-767-1  |                                                                                 | 01-2119489794-17-xxxx | Acute Tox. 4; H302<br>Eye Dam. 1; H318                                                                           |
| Clove ext.                                                        |                                          | < 1       | 84961-50-2<br>8000-34-8<br>68917-29-3                                                                                                                                                                                                                                                                | 284-638-7  |                                                                                 |                       | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Asp. Tox. 1; H304                             |
| Black pepper oil                                                  |                                          | < 1       | 84929-41-9                                                                                                                                                                                                                                                                                           | 284-524-7  |                                                                                 | 01-2120740133-68-xxxx | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Skin Sens. 1B; H317<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2; H411 |
| Isoeugenol                                                        |                                          | < 0.01    | 97-54-1                                                                                                                                                                                                                                                                                              | 202-590-7  | 604-094-00-X                                                                    |                       | Acute Tox. 4; H302<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1A; H317     |
| The full text of the (EU)H-statements can be found in section 16. |                                          |           |                                                                                                                                                                                                                                                                                                      |            |                                                                                 |                       |                                                                                                                  |
| SCL, M-factor and ATE                                             |                                          |           |                                                                                                                                                                                                                                                                                                      |            |                                                                                 |                       |                                                                                                                  |
| Naam component(en)                                                |                                          |           | CAS nr.                                                                                                                                                                                                                                                                                              |            | SCL, M-factor, ATE                                                              |                       |                                                                                                                  |
| Tetrasodium pyrophosphate                                         |                                          |           | 7722-88-5<br>13472-36-1                                                                                                                                                                                                                                                                              |            | Oral: ATE = >300 mg/kg                                                          |                       |                                                                                                                  |
| Isoeugenol                                                        |                                          |           | 97-54-1                                                                                                                                                                                                                                                                                              |            | Oral: ATE = 500 mg/kg<br>Dermal: 1,100 mg/kg<br>Skin Sens. 1A; H317: C ≥ 0.01 % |                       |                                                                                                                  |
| 4. First aid measures                                             |                                          |           |                                                                                                                                                                                                                                                                                                      |            |                                                                                 |                       |                                                                                                                  |
| 4.1                                                               | <u>Description of first aid measures</u> |           |                                                                                                                                                                                                                                                                                                      |            |                                                                                 |                       |                                                                                                                  |
| General                                                           |                                          |           | Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. |            |                                                                                 |                       |                                                                                                                  |
| First aid measures in case of inhalation                          |                                          |           | Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.                                                                                                              |            |                                                                                 |                       |                                                                                                                  |
| First aid measures in case of skin contact                        |                                          |           | Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.                                                                                                                                                                                                 |            |                                                                                 |                       |                                                                                                                  |
| First aid measures in case of eye contact                         |                                          |           | Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.                                                                                                      |            |                                                                                 |                       |                                                                                                                  |

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| First aid measures in case of ingestion                            |                                                                                          | Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.                                                                                                                                                                                                                                                                              |
| 4.2                                                                | <b><u>Most important symptoms and effects, both acute and delayed</u></b>                |                                                                                                                                                                                                                                                                                                                                                                                           |
| Symptoms and effects are not known to date.                        |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                           |
| 4.3                                                                | <b><u>Indication of any immediate medical attention and special treatment needed</u></b> |                                                                                                                                                                                                                                                                                                                                                                                           |
| For specialist advice physicians should contact the poison centre. |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>5. Firefighting measures</b>                                    |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                           |
| 5.1                                                                | <b><u>Extinguishing media</u></b>                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |
| Suitable extinguishing media                                       |                                                                                          | Water spray; dry extinguishing powder; carbon dioxide (CO2); co-ordinate firefighting measures to the fire surroundings.                                                                                                                                                                                                                                                                  |
| Unsuitable extinguishing media                                     |                                                                                          | Water jet.                                                                                                                                                                                                                                                                                                                                                                                |
| 5.2                                                                | <b><u>Special hazards arising from the substance or mixture</u></b>                      |                                                                                                                                                                                                                                                                                                                                                                                           |
| Special exposure hazards                                           |                                                                                          | During fire hazardous fumes/smoke could be produced.                                                                                                                                                                                                                                                                                                                                      |
| 5.3                                                                | <b><u>Advice for firefighters</u></b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
| Special protective equipment                                       |                                                                                          | Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.                                                                                                                                                                                                                                                                                                 |
| Special procedures                                                 |                                                                                          | In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.                                                                                   |
| <b>6. Accidental release measures</b>                              |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                           |
| 6.1                                                                | <b><u>Personal precautions, protective equipment and emergency procedures</u></b>        |                                                                                                                                                                                                                                                                                                                                                                                           |
| Personal precautions                                               |                                                                                          | <i>For non-emergency personnel:</i><br>Remove persons to safety. Ventilate affected area.<br><i>For emergency responders:</i><br>Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.                                                                                                                                          |
| 6.2                                                                | <b><u>Environmental precautions</u></b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                           |
| Environmental precautions                                          |                                                                                          | Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.                                                                                                                                                                                                                                                                                     |
| 6.3                                                                | <b><u>Methods and material for containment and cleaning up</u></b>                       |                                                                                                                                                                                                                                                                                                                                                                                           |
| Methods for cleaning up                                            |                                                                                          | <i>Advice on how to contain a spill:</i><br>Covering of drains.<br><i>Advice on how to clean up a spill:</i><br>Wipe up with absorbent material (e.g. cloth, fleece).<br><i>Appropriate containment techniques:</i><br>Use of adsorbent materials.<br><i>Other information relating to spills and releases:</i><br>Place in appropriate containers for disposal. Ventilate affected area. |

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| 6.4                                                                                              | Reference to other sections                                  |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Hazardous combustion products                                                                    |                                                              |              | See section 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                    |                |
| Personal protection                                                                              |                                                              |              | See section 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                    |                |
| Incompatible materials                                                                           |                                                              |              | See section 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Removal of the waste product                                                                     |                                                              |              | See section 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| 7. Handling and storage                                                                          |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| 7.1                                                                                              | Precautions for safe handling                                |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Handling                                                                                         |                                                              |              | <i>Measures to prevent fire as well as aerosol and dust generation:</i><br>Use local and general ventilation. Use only in well-ventilated areas.<br><i>Advice on general occupational hygiene:</i><br>Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. |                   |                    |                |
| 7.2                                                                                              | Conditions for safe storage, including any incompatibilities |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Storage                                                                                          |                                                              |              | Keep away from alkalis, oxidising substances, acids. Protect against external exposure, such as high temperatures. UV-radiation/sunlight. Store in a well-ventilated place. Keep container tightly closed.                                                                                                                                                                                                                                                                                                                                           |                   |                    |                |
| Protection against fire and explosion                                                            |                                                              |              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                    |                |
| Packaging material                                                                               |                                                              |              | Keep only in original container.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                    |                |
| Unsuitable packaging material                                                                    |                                                              |              | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                    |                |
| 7.3                                                                                              | Specific end use(s)                                          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| No further relevant information available.                                                       |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| 8. Exposure controls/personal protection                                                         |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| 8.1                                                                                              | Control parameters                                           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Occupational exposure limits                                                                     |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Occupational exposure limit values (Workplace Exposure Limits)                                   |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Cas no                                                                                           | Name of agent                                                | TWA-8h (ppm) | TWA-8h (mg/m³)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TWA- 15 min (ppm) | TWA-15 min (mg/m³) | Source         |
| 7722-88-5<br>13472-36-1                                                                          | Tetrasodium pyrophosphate                                    |              | 2.79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                    | REACH          |
| 7722-88-5                                                                                        | Tetrasodium pyrophosphate                                    |              | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                    | EH40/2005 (GB) |
| TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit |                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                    |                |
| Biological limit values                                                                          |                                                              |              | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                    |                |
| DNELs                                                                                            |                                                              |              | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                    |                |
| PNECs                                                                                            |                                                              |              | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                    |                |

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| <b>8.2</b>                                 | <b><u>Exposure controls</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Engineering measures                       | General ventilation. Provide eyewash stations and safety showers at the workplace.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Personal protection equipment              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Eye / face protection                      | Use safety goggle with side protection (EN 166).<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Skin protection                            | Chemical protective clothing (EN 340 & EN ISO 13688).<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hand protection                            | <p>Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable are gloves tested according to EN 374 against chemicals. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.</p> <p>Type of material: Nitrile rubber.<br/>Material thickness Use gloves with a minimum material thickness: <math>\geq 0.38</math> mm.<br/>Breakthrough time of the glove material: Use gloves with a minimum breakthrough time of the glove material: &gt;480 minutes (permeation: level 6).<br/>Other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.</p>  |
| Respiratory protection                     | In case of inadequate ventilation wear respiratory protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Thermal hazards                            | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Environmental exposure controls            | Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>9. Physical and chemical properties</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>9.1</b>                                 | <b><u>Information on basic physical and chemical properties</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Physical state                             | Liquid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Colour                                     | Light brown with black precipitate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Odour                                      | Characteristic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Melting / freezing point                   | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Boiling point / range (1013 hPa)           | 286.5 °C at 1,013 hPa calculated value, referring to a component of the mixture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Flammability                               | This material is combustible, but will not ignite readily.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Explosion limits                           | Lower explosion limit: not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                                                    | Upper explosion limit: not available.                                                                                                                                        |
| Flash point                                        | Not applicable.                                                                                                                                                              |
| Auto-ignition temperature                          | Not available.                                                                                                                                                               |
| Decomposition temperature                          | Not available.                                                                                                                                                               |
| pH                                                 | 8.6 (20 °C) (NEN 6411).                                                                                                                                                      |
| Kinematic viscosity                                | 8.025 cSt at 25 °C (ASTM D 445 25).                                                                                                                                          |
| Solubility                                         | Not available.                                                                                                                                                               |
| Partition coefficient n-octanol/water              | Not available.                                                                                                                                                               |
| Vapour pressure                                    | 0.001 hPa at 24.7 °C calculated value, referring to a component of the mixture.                                                                                              |
| Density or relative density                        | Not available.                                                                                                                                                               |
| Relative vapour density                            | Not available.                                                                                                                                                               |
| Particle characteristics                           | Not relevant (liquid).                                                                                                                                                       |
| <b>9.2</b>                                         | <b><u>Other information</u></b>                                                                                                                                              |
| Information with regard to physical hazard classes | Hazard classes acc. to GHS (physical hazards): not relevant.                                                                                                                 |
| Other safety characteristics                       | No further relevant information available.                                                                                                                                   |
| <b>10. Stability and reactivity</b>                |                                                                                                                                                                              |
| <b>10.1</b>                                        | <b><u>Reactivity</u></b>                                                                                                                                                     |
| Reactivity                                         | This material is not reactive under normal ambient conditions.                                                                                                               |
| <b>10.2</b>                                        | <b><u>Chemical stability</u></b>                                                                                                                                             |
| Stability                                          | The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.                                                     |
| <b>10.3</b>                                        | <b><u>Possibility of hazardous reactions</u></b>                                                                                                                             |
| Hazardous reactions                                | No known hazardous reactions.                                                                                                                                                |
| <b>10.4</b>                                        | <b><u>Conditions to avoid</u></b>                                                                                                                                            |
| Conditions to avoid                                | There are no specific conditions known which have to be avoided.                                                                                                             |
| <b>10.5</b>                                        | <b><u>Incompatible materials</u></b>                                                                                                                                         |
| Materials to avoid                                 | Oxidisers.                                                                                                                                                                   |
| <b>10.6</b>                                        | <b><u>Hazardous decomposition products</u></b>                                                                                                                               |
| Hazardous decomposition products                   | Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. |

### 11. Toxicological information

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

General Test data are not available for the complete mixture. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

| Cas no.                 | Name of substance         | Route of exposure | ATE         |
|-------------------------|---------------------------|-------------------|-------------|
| 7722-88-5<br>13472-36-1 | Tetrasodium pyrophosphate | Oral              | >300 mg/kg  |
| 97-54-1                 | Isoeugenol                | Oral              | 500 mg/kg   |
|                         |                           | Dermal            | 1,100 mg/kg |

#### Acute toxicity of components of the mixture

| Cas no.                 | Name of substance         | Route of exposure | Doses                      | Species |
|-------------------------|---------------------------|-------------------|----------------------------|---------|
| 7722-88-5<br>13472-36-1 | Tetrasodium pyrophosphate | Oral              | LD50 = >300 – <2,000 mg/kg | Rat     |
|                         |                           | Dermal            | LD50 = >2,000 mg/kg        | Rabbit  |
| 84929-41-9              | Black pepper oil          | Oral              | LD50 = >5,000 mg/kg        | Rat     |

Skin corrosion / irritation Shall not be classified as corrosive/irritant to skin.

Serious eye damage / irritation Causes serious eye irritation.

Respiratory or skin sensitisation Contains isoeugenol, clove ext., black pepper oil. May produce an allergic reaction.

Germ cell mutagenicity Shall not be classified as germ cell mutagenic.

Carcinogenicity Shall not be classified as carcinogenic.

Reproductive toxicity Shall not be classified as a reproductive toxicant.

Specific target organ toxicity – single exposure Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity – repeated exposure Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

Other hazards No further relevant information available.

### 12. Ecological information

#### 12.1 Toxicity

Ecotoxicity  
Shall not be classified as hazardous to the aquatic environment.

| Cas no.                 | Name of substance         | Aquatic toxicity                     | Value              | Exposure time |
|-------------------------|---------------------------|--------------------------------------|--------------------|---------------|
| 7722-88-5<br>13472-36-1 | Tetrasodium pyrophosphate | Acute fish toxicity                  | LC50 = >100 mg/l   | 96 h          |
|                         |                           | Acute aquatic invertebrates toxicity | EC50 = >100 mg/l   | 48 h          |
|                         |                           | Acute algae toxicity                 | ErC50 = >100 mg/l  | 72 h          |
|                         |                           | Acute fish toxicity                  | NOEC = 100 mg/l    | 96 h          |
| 84929-41-9              | Black pepper oil          | Acute aquatic invertebrates toxicity | EL50 = 7.9 mg/l    | 48 h          |
| 7722-88-5<br>13472-36-1 | Tetrasodium pyrophosphate | Chronic microorganisms toxicity      | EC50 = >1,000 mg/l | 3 h           |
|                         |                           | Chronic microorganisms toxicity      | NOEC = 1,000 mg/l  | 3 h           |

#### 12.2 Persistence and degradability

Persistence and degradability      There is no information available.

#### 12.3 Bioaccumulation

Bioaccumulation      There is no information available.

#### 12.4 Mobility in soil

Mobility      There is no information available.

#### 12.5 Results of PBT and vPvB assessment

Evaluation      Does not contain any substances that are assessed to be PBT or vPvB  $\geq$  0.1%.

#### 12.6 Endocrine disrupting properties

Endocrine disrupting potential      Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0.1%.

#### 12.7 Other adverse effects

Other adverse effects      No further relevant information available.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

|                                       |                                                                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues / unused products | Do not empty into drains. Avoid release to the environment. Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. |
| European list of waste products       | There is no information available.                                                                                                                                                                                                                          |
| Removal of contaminated packaging     | Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.                                                                                                                                          |

| <b>14. Transport information</b>                                                                           |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------------------|-------------|-----|-----------|--------------------------------------------------------------------------------------------------|-----|---|------------|---------------------------------------------------|------|----|------------|---------------------------------------------------|------|----|------------------|------------------------|------|----|------------------|---------------------------------------------------|------|----|---------------------------|---------------------------------------------------|------|----|
| <b>14.1 UN-number</b>                                                                                      |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| UN-number                                                                                                  |                                                                                                  | No dangerous good according to ADR/RID/ADN/IMDG/ICAO-IATA regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.2 UN proper shipping name</b>                                                                        |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| ADR/RID/ADN name                                                                                           |                                                                                                  | No dangerous good according to ADR/RID/ADN regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| IMDG name                                                                                                  |                                                                                                  | No dangerous good according to IMDG regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| ICAO-IATA name                                                                                             |                                                                                                  | No dangerous good according to ICAO-IATA regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.3 Transport hazard class(es)</b>                                                                     |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Class                                                                                                      |                                                                                                  | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.4 Packing group</b>                                                                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Packing group                                                                                              |                                                                                                  | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.5 Environmental hazards</b>                                                                          |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Environmentally hazard                                                                                     |                                                                                                  | Non-environmentally hazardous acc. to the dangerous goods regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Marine pollutant                                                                                           |                                                                                                  | There is no information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.6 Special precautions for user</b>                                                                   |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| No further relevant information available.                                                                 |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b>                                        |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| There is no information available.                                                                         |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>15. Regulatory information</b>                                                                          |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Relevant EU rule(s)                                                                                        |                                                                                                  | <p><i>Restrictions according REACH, Annex XVII:</i></p> <table border="1"> <thead> <tr> <th>Name</th> <th>Name according to inventory</th> <th>Restriction</th> <th>No.</th> </tr> </thead> <tbody> <tr> <td>Stay Away</td> <td>This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC</td> <td>R3*</td> <td>3</td> </tr> <tr> <td>Isoeugenol</td> <td>Substances in ink for tattoo or permanent make-up</td> <td>R75*</td> <td>75</td> </tr> <tr> <td>Clove ext.</td> <td>Substances in ink for tattoo or permanent make-up</td> <td>R75*</td> <td>75</td> </tr> <tr> <td>Black pepper oil</td> <td>Flammable / pyrophoric</td> <td>R40*</td> <td>40</td> </tr> <tr> <td>Black pepper oil</td> <td>Substances in ink for tattoo or permanent make-up</td> <td>R75*</td> <td>75</td> </tr> <tr> <td>Tetrasodium pyrophosphate</td> <td>Substances in ink for tattoo or permanent make-up</td> <td>R75*</td> <td>75</td> </tr> </tbody> </table> <p><i>List of substances subject to authorisation (REACH, Annex XIV) / SVHC) - candidate list:</i><br/>None of the ingredients are listed.</p> <p><i>Seveso Directive (2012/18/EU Seveso III):</i><br/>Not assigned.</p> |     | Name | Name according to inventory | Restriction | No. | Stay Away | This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3* | 3 | Isoeugenol | Substances in ink for tattoo or permanent make-up | R75* | 75 | Clove ext. | Substances in ink for tattoo or permanent make-up | R75* | 75 | Black pepper oil | Flammable / pyrophoric | R40* | 40 | Black pepper oil | Substances in ink for tattoo or permanent make-up | R75* | 75 | Tetrasodium pyrophosphate | Substances in ink for tattoo or permanent make-up | R75* | 75 |
| Name                                                                                                       | Name according to inventory                                                                      | Restriction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Stay Away                                                                                                  | This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3   |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Isoeugenol                                                                                                 | Substances in ink for tattoo or permanent make-up                                                | R75*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75  |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Clove ext.                                                                                                 | Substances in ink for tattoo or permanent make-up                                                | R75*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75  |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Black pepper oil                                                                                           | Flammable / pyrophoric                                                                           | R40*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40  |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Black pepper oil                                                                                           | Substances in ink for tattoo or permanent make-up                                                | R75*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75  |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |
| Tetrasodium pyrophosphate                                                                                  | Substances in ink for tattoo or permanent make-up                                                | R75*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75  |      |                             |             |     |           |                                                                                                  |     |   |            |                                                   |      |    |            |                                                   |      |    |                  |                        |      |    |                  |                                                   |      |    |                           |                                                   |      |    |

*Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR):*

None of the ingredients are listed.

*Water Framework Directive (WFD):*

None of the ingredients are listed.

*Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013:*

None of the ingredients are listed.

*Regulation on persistent organic pollutants (POP):*

None of the ingredients are listed.

### \*Legend

#### **R3**

1. Shall not be used:

- in decorative articles intended to obtain light or colour effects by different phases, for example, in mood lamps and ashtrays,
- in jest and joke articles,
- in games for one or more persons or in any article intended to be used as such, even if acting as an ornamental object.

2. Articles that do not comply with paragraph 1 may not be placed on the market.

3. May not be placed on the market if they contain a dye, unless required for fiscal reasons, or a fragrance or both,

and if they:

- can be used as fuel in decorative oil lamps intended for the general public, and
- are hazardous by inhalation and are marked H304.

4. Decorative oil lamps intended for the general public may be placed on the market only if they comply with the European Standard on Decorative Oil Lamps adopted by the European Committee for Standardization (CEN) (EN 14059).

5. Without prejudice to the application of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure that the products comply with the following requirements before they are placed on the market:

(a) lamp oils labelled with H304 and intended for the general public shall bear visibly, legibly and indelibly the following statements: "Keep lamps filled with this liquid out of the reach of children"; and, no later than December 1

2010, "A small sip of lamp oil - or just sucking on the wick of lamps - can result in life-threatening lung damage."

(b) barbecue lighter fluids marked with H304 and intended for use by the general public shall, no later than December 1, 2010, bear legibly and indelibly the following statement: "A small sip of lighter fluid may result in life-threatening lung damage";

(c) lamp oils and grill lighter fluids marked with H304 and intended for use by the general public shall be packaged in black opaque containers of 1 litre or less no later than December 1, 2010.

#### **R40**

1. Shall not be used as substances or in mixtures in aerosols marketed for supply to the general public for entertainment or decorative purposes, such as:

- metallic glitter (primarily intended as a decorative article);
- artificial snow and frosting (decorative article);
- "fart pads" (fop article);
- "silly string" (joke article);
- fake scrolls (fop article);
- party horns (entertainment article);
- flakes and foam (decoration article);
- imitation spider webs (joke article);
- stink bombs (jest article).

2. Without prejudice to the application of other Community provisions relating to the classification, packaging and labelling of substances, suppliers shall ensure, prior to placing on the market, that the packaging of the aerosol dispensers referred to above is marked visibly, legibly and indelibly as follows: "Intended for professional users only".

3. However, paragraphs 1 and 2 shall not apply to aerosols referred to in Article 8(1a) of Council Directive 75/324/EEC (2).

4. Aerosol dispensers referred to in points 1 and 2 shall not be placed on the market unless they comply with the requirements referred to in those points.

### R75

1. Shall not be placed on the market in mixtures for tattooing purposes, and mixtures containing such substances shall not be used for tattooing purposes after January 4, 2022, if the substance(s) in question is/are present or if the following circumstances occur:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as a category 1A, 1B or 2 carcinogen, or as a category 1A, 1B or 2 germ cell mutagen, the concentration of that substance in the mixture is equal to or greater than 0.00005 percent by weight;

(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as toxic to reproduction category 1A, 1B or 2, the concentration of that substance in the mixture is equal to or greater than 0.001 percent by weight

(c) in the case of a substance classified as a category 1, 1A or 1B skin allergen in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as corrosive to the skin of category 1, 1A, 1B or 1C, or irritant to the skin of category 2, or for serious eye damage of category 1 or irritant to the eyes of category 2, the concentration of that substance in the mixture is equal to or greater than:

(i) 0.1 percent by weight, if the substance is used exclusively as a pH regulator;

(ii) 0.01 percent by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), a concentration in the mixture equal to or greater than 0.00005 percent by weight;

(f) in the case of a substance for which column (g) (Product type, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009 indicates one or more of the following types of conditions, a concentration of the substance in the mixture equal to or greater than 0.00005 percent by weight:

(i) "Products to be washed off, out or away";

(ii) "Not to be used in products applied to mucous membranes";

(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in the product ready for use) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the concentration of the substance in the mixture does not meet the condition specified in that column, or the substance otherwise fails to meet it;

(h) in the case of a substance listed in Appendix 13 to this Annex, the concentration of the substance in the mixture equals or exceeds the concentration limit specified for that substance in that Appendix.

2. For purposes of this entry, use of a mixture "for tattooing purposes" means the injection or insertion of the mixture into the skin, mucous membranes, or eyeball of a person by means of a process or procedure (including procedures commonly referred to as "permanent makeup," cosmetic tattooing, "microblading" and "micropigmentation"), for the purpose of leaving a permanent mark or drawing on that person's body.

3. If a substance not listed in Appendix 13 is subject to more than one of paragraphs (a) through (g) of paragraph (1), the most stringent of the concentration limits established in those paragraphs shall apply to that substance. If a substance listed in Appendix 13 also falls under one or more of paragraphs (a) through (g) of paragraph (1), the concentration limit established in paragraph (1)(h) shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until January 4, 2023:

(a) Pigment Blue 15:3 (CI 74160, EC No. 205-685-1, CAS No. 147-14-8);

(b) Pigment Green 7 (CI 74260, EC No. 215-524-7, CAS No. 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No. 1272/2008 is amended after 4 January 2021 and thereby a substance is classified or reclassified in such a way that it falls under (a), (b), (c) or (d) of paragraph 1 of this entry, or under a different entry than before, and if the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall be treated, for the purposes of this entry to that substance, as applying on the date of application of that new or revised classification.

6. If the entry for a substance in Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after January 4, 2021, such that the substance falls under paragraph (e), (f) or (g) of item 1 of this entry, or under a different item than before, and if the amendment takes effect after the date of such entry referred to in paragraph 1 or, as the case may be, paragraph 4, such amendment shall be treated as taking effect as of the date falling 18 months after the entry into force of the act adopting such amendment for the purposes of applying such entry to that substance.

7. Suppliers placing a mixture on the market for tattooing purposes after January 4, 2022, shall ensure that the following information is indicated on the mixture:

(a) the text "Mixture for use in tattoos or permanent makeup";

(b) a unique batch identification reference number;

|                      | <p>(c) the list of ingredients according to the nomenclature laid down in the glossary of common ingredient names in accordance with Article 33 of Regulation (EC) No 1223/2009, or, in the absence of a common ingredient name, the IUPAC designation. In the absence of a common ingredient name or IUPAC designation, the CAS and EC number. Ingredients shall be listed in descending order of weight or volume of ingredients at the time of composition. "Ingredient" means any substance that is added during the formulation of the mixture for tattooing purposes added and present therein. Impurities are not considered ingredients. Where the name of a substance used as an ingredient within the meaning of this entry is already required to be indicated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient need not be indicated in accordance with this Regulation;</p> <p>(d) the additional statement "pH regulator" for substances covered by paragraph 1(d)(ii);</p> <p>(e) the statement "Contains nickel. May cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</p> <p>(f) the statement "Contains hexavalent chromium (VI). May cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</p> <p>(g) safety precautions for use, if not already required to be indicated on the label in accordance with Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and indelible. The information shall be in the official language(s) of the Member State(s) where the mixture is marketed, unless otherwise specified by the Member State(s) concerned.</p> <p>If there is not enough space on the packaging for the information referred to in the first subparagraph, that information shall, except as regards point (a), be included in the instructions for use. The person administering the mixture shall provide the information specified on the packaging or in the instructions for use in accordance with this paragraph to the person undergoing the procedure before the mixture is used for tattooing purposes.</p> <p>8. Mixtures without the text "Mixture for use in tattoos or permanent makeup" shall not be used for tattooing purposes.</p> <p>9. This entry does not apply to substances that are gases at a temperature of 20 °C and pressure of 101.3 kPa, or that generate a vapor pressure greater than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS No. 50-00-0, EC No. 200-001-8).</p> <p>10. This entry does not apply to the placing on the market or use of mixtures for tattooing purposes that are placed on the market or used exclusively as medical devices or accessories of a medical device within the meaning of Regulation (EU) 2017/745. Where a mixture has not been placed on the market or cannot be used exclusively as a medical device or accessory to a medical device, the requirements of Regulation (EU) 2017/745 and the requirements of this Regulation shall apply cumulatively.</p> |             |                             |             |     |           |                                                                                                  |     |   |                  |                        |      |    |
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| National regulations | <p>NL:<br/><i>SZW list of CMR effects:</i><br/>None of the ingredients are listed.</p> <p>GB:<br/><i>List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list:</i><br/>None of the ingredients are listed.</p> <p><i>Restrictions according to GB REACH, Annex 17:</i></p> <table><tr><th>Name</th><th>Name according to inventory</th><th>Restriction</th><th>No.</th></tr><tr><td>Stay Away</td><td>This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC</td><td>R3*</td><td>3</td></tr><tr><td>Black pepper oil</td><td>Flammable / pyrophoric</td><td>R40*</td><td>40</td></tr></table> <p>*Legend<br/><b>R3</b><br/>1. Shall not be used in:<br/>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,<br/>— tricks and jokes,<br/>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,<br/>2. Articles not complying with paragraph 1 shall not be placed on the market.<br/>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:<br/>— can be used as fuel in decorative oil lamps for supply to the general public, and,<br/>— present an aspiration hazard and are labelled with R65 or H304,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name        | Name according to inventory | Restriction | No. | Stay Away | This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3* | 3 | Black pepper oil | Flammable / pyrophoric | R40* | 40 |
| Name                 | Name according to inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Restriction | No.                         |             |     |           |                                                                                                  |     |   |                  |                        |      |    |
| Stay Away            | This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R3*         | 3                           |             |     |           |                                                                                                  |     |   |                  |                        |      |    |
| Black pepper oil     | Flammable / pyrophoric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R40*        | 40                          |             |     |           |                                                                                                  |     |   |                  |                        |      |    |

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                      | <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.</p> <p>5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:</p> <p>(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows:<br/> 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil'<br/> — or even sucking the wick of lamps<br/> — may lead to life-threatening lung damage';</p> <p>(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';</p> <p>(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> <p>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.</p> <p><b>R40</b></p> <p>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:<br/> — metallic glitter intended mainly for decoration,<br/> — artificial snow and frost,<br/> — 'whoopie' cushions,<br/> — silly string aerosols,<br/> — imitation excrement,<br/> — horns for parties,<br/> — decorative flakes and foams,<br/> — artificial cobwebs,<br/> — stink bombs.</p> <p>2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (***).</p> <p>4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. (***) OJ L 147, 9.6.1975, p. 40.</p> |
| <b>15.2</b>                                                                          | <b><u>Chemical Safety Assessment</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| No Chemical Safety Assessment has been carried out for this mixture by the supplier. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>16. Other information</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Indication of changes (revised safety data sheet)                                    | Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Adjustment UFI and company name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sources of used key data                                                             | <p>This information is based on the currently available information (Producer(s)).<br/> See also the website:<br/> <a href="https://echa.europa.eu/information-on-chemicals/registered-substances">https://echa.europa.eu/information-on-chemicals/registered-substances</a></p> <p>Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures. Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878/EU.</p> <p>Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).<br/> Regulations concerning the International Carriage of Dangerous Goods by Rail (RID).<br/> International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                                    | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (EU)H-statement(s)                 | <p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Classification procedure           | Physical and chemical properties: The classification is based on tested mixture.<br>Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| List of abbreviations and acronyms | <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADR/RID/ADN: Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways.</p> <p>Acute Tox.: Acute toxicity.</p> <p>Aquatic Chronic: Hazardous to the aquatic environment – chronic hazard.</p> <p>ATE: Acute toxicity estimate.</p> <p>BCF: Bio-concentration factor.</p> <p>CAS: Chemical Abstracts Service.</p> <p>CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.</p> <p>CMR: Carcinogenic, Mutagenic or Reproductive Toxic.</p> <p>DGR: Dangerous Goods Regulations.</p> <p>DNEL: Derived No Effect Level.</p> <p>DMEL: Derived Minimal Effect Level.</p> <p>EC-No.: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances.</p> <p>ELINCS: European List of Notified Chemical Substances.</p> <p>EC50: Effective Concentration 50%.</p> <p>EL50: Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.</p> <p>ErC50: <math>\equiv</math> EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.</p> <p>Eye Dam.: Serious eye damage.</p> <p>Eye Irrit.: Serious eye irritation.</p> <p>Flam. Liq.: Flammable liquid.</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals.</p> <p>IATA: International Air Transport Association (provisions concerning the international carriage of dangerous goods by air).</p> <p>IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA).</p> <p>ICAO: International Civil Aviation Organization.</p> <p>ICAO-TI: Technical instructions for the safe transport of dangerous goods by air.</p> <p>IMDG: International Maritime Dangerous Goods Code.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population.</p> <p>NLP: No-Longer Polymer.</p> <p>NOEC: No Observed Effect Concentration.</p> |

M-factor: Multiplication factor.  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
 SCL: Specific concentration limit.  
 Skin Corr.: Skin corrosion.  
 Skin Irrit.: Skin irritation.  
 Skin Sens.: Skin sensitization.  
 SVHC: Substances of Very High Concern.  
 vPvB: Very Persistent and Very Bioaccumulative.

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.  
 Holland Animal Care B.V. denies all responsibility for loss or damage resulting from the use of these data.

**End of document**