



**Maston - Adhesive Spray - Sprayliima**  
**736736, 736735**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** Maston - Adhesive Spray - Sprayliima  
736736, 736735  
UFI: NS00-00QC-D00F-TVHC
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Adhesive  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
Maston Oy  
Teollisuustie 10  
FI 02880 Veikkola - Finland  
Phone.: +358 20 7188 580 -  
Fax: +358 20 7188 599  
maston@maston.fi  
www.maston.fi
- 1.4 Emergency telephone number:** Myrkytystietokeskus (Giftinformationcentralen) PL 340 00029 HUS FINLAND +358(0)9471977

**SECTION 2: HAZARDS IDENTIFICATION \*\***

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aerosol 1: Pressurised container: May burst if heated., H229  
Aerosol 1: Flammable aerosols, Category 1, H222  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Skin Irrit. 2: Skin irritation, Category 2, H315  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
Danger
- 
- Hazard statements:**  
Aerosol 1: H229 - Pressurised container: May burst if heated  
Aerosol 1: H222 - Extremely flammable aerosol  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness
- Precautionary statements:**  
P102: Keep out of reach of children  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211: Do not spray on an open flame or other ignition source  
P251: Do not pierce or burn, even after use  
P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F
- Supplementary information:**  
EUH208: Contains Tris(nonylphenyl) phosphite. May produce an allergic reaction
- Substances that contribute to the classification**  
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; 2-butanone (CAS: 78-93-3)
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria  
DK MAL-code 3-1

\*\* Changes with regards to the previous version

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\***

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Aerosol

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification  | Chemical name/Classification  | Concentration                 |
|---|---|-------------------------------|
| CAS: Non-applicable<br>EC: 921-024-6<br>Index: Non-applicable<br>REACH: 01-2119475514-35-XXXX | <b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> <sup>1</sup><br>Regulation 1272/2008<br>Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger | Self-classified<br>10 - <20 % |
| CAS: 115-10-6<br>EC: 204-065-8<br>Index: 603-019-00-8<br>REACH: 01-2119472128-37-XXXX         | <b>Dimethyl ether</b> <sup>2</sup><br>Regulation 1272/2008<br>Flam. Gas 1: H220; Press. Gas: H280 - Danger  | ATP CLP00<br>10 - <20 %       |
| CAS: 106-97-8<br>EC: 203-448-7<br>Index: 601-004-00-0<br>REACH: 01-2119474691-32-XXXX         | <b>Butane</b> <sup>2</sup><br>Regulation 1272/2008<br>Flam. Gas 1: H220; Press. Gas: H280 - Danger  | ATP CLP00<br>10 - <20 %       |
| CAS: 74-98-6<br>EC: 200-827-9<br>Index: 601-003-00-5<br>REACH: 01-2119486944-21-XXXX          | <b>Propane</b> <sup>2</sup><br>Regulation 1272/2008<br>Flam. Gas 1: H220; Press. Gas: H280 - Danger   | ATP CLP00<br>10 - <20 %       |
| CAS: 78-93-3<br>EC: 201-159-0<br>Index: 606-002-00-3<br>REACH: 01-2119457290-43-XXXX          | <b>2-butanone</b> <sup>2</sup><br>Regulation 1272/2008<br>Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger  | ATP CLP00<br>5 - <10 %        |
| CAS: 61790-50-9<br>EC: 263-142-4<br>Index: Non-applicable<br>REACH: 01-2119486885-17-XXXX     | <b>Resin acids and Rosin acids, potassium salts</b> <sup>1</sup><br>Regulation 1272/2008<br>Eye Irrit. 2: H319 - Warning  | Self-classified<br>1 - <5 %   |
| CAS: 109-66-0<br>EC: 203-692-4<br>Index: 601-006-00-1<br>REACH: 01-2119459286-30-XXXX         | <b>Pentane</b> <sup>2</sup><br>Regulation 1272/2008<br>Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger   | ATP CLP00<br>0,25 - <1 %      |
| CAS: 26523-78-4<br>EC: 247-759-6<br>Index: 015-202-00-4<br>REACH: 01-2119520601-54-XXXX       | <b>Tris(nonylphenyl) phosphite</b> <sup>1</sup><br>Regulation 1272/2008<br>Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning   | ATP ATP03<br>0,1 - <0,25 %    |

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

<sup>2</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

\*\* Changes with regards to the previous version

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

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**SECTION 4: FIRST AID MEASURES (continued)**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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**SECTION 7: HANDLING AND STORAGE (continued)**

**B.- Technical recommendations for the prevention of fires and explosions**

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations to prevent ergonomic and toxicological risks**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**

**A.- Technical measures for storage**

Minimum Temp.: 5 °C  
Maximum Temp.: 50 °C  
Maximum time: 60 Months

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the work environment

| Identification                                   | Environmental limits |          |                        |
|--|----------------------|----------|------------------------|
|  | IOELV (8h)           | 1000 ppm | 1920 mg/m <sup>3</sup> |
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8 | IOELV (STEL)         |          |                        |
|  | Year                 | 2018     |                        |
|  | IOELV (8h)           | 1000 ppm | 3000 mg/m <sup>3</sup> |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4        | IOELV (STEL)         |          |                        |
|  | Year                 | 2018     |                        |
|  | IOELV (8h)           | 200 ppm  | 600 mg/m <sup>3</sup>  |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0      | IOELV (STEL)         | 300 ppm  | 900 mg/m <sup>3</sup>  |
|  | Year                 | 2018     |                        |

**DNEL (Workers):**

| Identification  |            | Short exposure |                | Long exposure          |                |
|---|------------|----------------|----------------|------------------------|----------------|
|   |            | Systemic       | Local          | Systemic               | Local          |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>CAS: Non-applicable<br>EC: 921-024-6 | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 773 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 2035 mg/m <sup>3</sup> | Non-applicable |
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8  | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 1894 mg/m <sup>3</sup> | Non-applicable |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0   | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 1161 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 600 mg/m <sup>3</sup>  | Non-applicable |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4                          | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 17 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 117 mg/m <sup>3</sup>  | Non-applicable |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4   | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 432 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 3000 mg/m <sup>3</sup> | Non-applicable |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification  |            | Short exposure |                | Long exposure          |                |
|---|------------|----------------|----------------|------------------------|----------------|
|   |            | Systemic       | Local          | Systemic               | Local          |
| Tris(nonylphenyl) phosphite<br>CAS: 26523-78-4<br>EC: 247-759-6 | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 16,7 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 23,6 mg/m <sup>3</sup> | Non-applicable |

**DNEL (General population):**

| Identification  |            | Short exposure |                | Long exposure          |                |
|---|------------|----------------|----------------|------------------------|----------------|
|   |            | Systemic       | Local          | Systemic               | Local          |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>CAS: Non-applicable<br>EC: 921-024-6 | Oral       | Non-applicable | Non-applicable | 699 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 699 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 608 mg/m <sup>3</sup>  | Non-applicable |
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8  | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 471 mg/m <sup>3</sup>  | Non-applicable |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0   | Oral       | Non-applicable | Non-applicable | 31 mg/kg               | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 412 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 106 mg/m <sup>3</sup>  | Non-applicable |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4                          | Oral       | Non-applicable | Non-applicable | 10 mg/kg               | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 10 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 35 mg/m <sup>3</sup>   | Non-applicable |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4   | Oral       | Non-applicable | Non-applicable | 214 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 214 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 643 mg/m <sup>3</sup>  | Non-applicable |
| Tris(nonylphenyl) phosphite<br>CAS: 26523-78-4<br>EC: 247-759-6   | Oral       | Non-applicable | Non-applicable | 1,67 mg/kg             | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 8,35 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 11,8 mg/m <sup>3</sup> | Non-applicable |

**PNEC:**

| Identification   |              |                |                         |              |  |
|--|--------------|----------------|-------------------------|--------------|--|
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8                                 | STP          | 160 mg/L       | Fresh water             | 0,155 mg/L   |  |
|  | Soil         | 0,045 mg/kg    | Marine water            | 0,016 mg/L   |  |
|  | Intermittent | 1,549 mg/L     | Sediment (Fresh water)  | 0,681 mg/kg  |  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,069 mg/kg  |  |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0                                      | STP          | 709 mg/L       | Fresh water             | 55,8 mg/L    |  |
|  | Soil         | 22,5 mg/kg     | Marine water            | 55,8 mg/L    |  |
|  | Intermittent | 55,8 mg/L      | Sediment (Fresh water)  | 284,74 mg/kg |  |
|  | Oral         | 1000 g/kg      | Sediment (Marine water) | 284,7 mg/kg  |  |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4 | STP          | 1000 mg/L      | Fresh water             | 0,0016 mg/L  |  |
|  | Soil         | 0,00045 mg/kg  | Marine water            | 0,00016 mg/L |  |
|  | Intermittent | 0,016 mg/L     | Sediment (Fresh water)  | 0,007 mg/kg  |  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,0007 mg/kg |  |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4  | STP          | 3,6 mg/L       | Fresh water             | 0,23 mg/L    |  |
|  | Soil         | 0,55 mg/kg     | Marine water            | 0,23 mg/L    |  |
|  | Intermittent | 0,88 mg/L      | Sediment (Fresh water)  | 1,2 mg/kg    |  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 1,2 mg/kg    |  |
| Tris(nonylphenyl) phosphite<br>CAS: 26523-78-4<br>EC: 247-759-6                  | STP          | 1,8 mg/L       | Fresh water             | 0,05 mg/L    |  |
|  | Soil         | Non-applicable | Marine water            | 0,05 mg/L    |  |
|  | Intermittent | 0,05 mg/L      | Sediment (Fresh water)  | 0,15 mg/kg   |  |
|  | Oral         | 37 g/kg        | Sediment (Marine water) | 0,15 mg/kg   |  |

**8.2 Exposure controls:**

A.- General security and hygiene measures in the work place

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

**C.- Specific protection for the hands**

Non-applicable

**D.- Ocular and facial protection**

Non-applicable

**E.- Body protection**

Non-applicable

**F.- Additional emergency measures**

It is not necessary to take additional emergency measures.

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                       |
|---------------------------|---------------------------------------|
| V.O.C. (Supply):          | 64,9 % weight                         |
| V.O.C. density at 20 °C:  | 436,09 kg/m <sup>3</sup> (436,09 g/L) |
| Average carbon number:    | 6,22                                  |
| Average molecular weight: | 91,05 g/mol                           |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Aerosol          |
| Appearance:              | Not available    |
| Colour:                  | Not available    |
| Odour:                   | Not available    |
| Odour threshold:         | Non-applicable * |

**Volatility:**

|  |                           |
|--|---------------------------|
| Boiling point at atmospheric pressure: | -42 - 100 °C (Propellant) |
| Vapour pressure at 20 °C:              | 359970 Pa                 |
| Vapour pressure at 50 °C:              | 359970 Pa (360 kPa)       |
| Evaporation rate at 20 °C:             | Non-applicable *          |

**Product description:**

|                               |                       |
|-------------------------------|-----------------------|
| Density at 20 °C:             | 672 kg/m <sup>3</sup> |
| Relative density at 20 °C:    | 0,67                  |
| Dynamic viscosity at 20 °C:   | Non-applicable *      |
| Kinematic viscosity at 20 °C: | Non-applicable *      |
| Kinematic viscosity at 40 °C: | Non-applicable *      |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|  |                     |
|--|---------------------|
| Concentration:                               | Non-applicable *    |
| pH:  | Non-applicable *    |
| Vapour density at 20 °C:                     | Non-applicable *    |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *    |
| Solubility in water at 20 °C:                | Non-applicable *    |
| Solubility properties:                       | Non-applicable *    |
| Decomposition temperature:                   | Non-applicable *    |
| Melting point/freezing point:                | Non-applicable *    |
| Recipient pressure:                          | 359970 Pa (3,6 bar) |
| Explosive properties:                        | Non-applicable *    |
| Oxidising properties:                        | Non-applicable *    |
| <b>Flammability:</b>                         |                     |
| Flash Point:                                 | -60 °C (Propellant) |
| Flammability (solid, gas):                   | Non-applicable *    |
| Autoignition temperature:                    | 365 °C (Propellant) |
| Lower flammability limit:                    | 0,8 % Volume        |
| Upper flammability limit:                    | 12 % Volume         |
| <b>Explosive:</b>                            |                     |
| Lower explosive limit:                       | Non-applicable *    |
| Upper explosive limit:                       | Non-applicable *    |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Combustive materials | Combustible materials | Others                        |
|--------------------|----------------|----------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact  | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION \*\***

\*\* Changes with regards to the previous version

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**SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A.- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

\*\* Changes with regards to the previous version

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**SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)**

| Identification  | Acute toxicity  |                  | Genus  |
|---|-----------------|------------------|--------|
|   |                 |                  |        |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0   | LD50 oral       | 4000 mg/kg       | Rat    |
|   | LD50 dermal     | 6400 mg/kg       | Rabbit |
|   | LC50 inhalation | 23,5 mg/L (4 h)  | Rat    |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>CAS: Non-applicable<br>EC: 921-024-6 | LD50 oral       | 5840 mg/kg       | Rat    |
|   | LD50 dermal     | 2920 mg/kg       | Rat    |
|   | LC50 inhalation | Non-applicable   |        |
| Butane<br>CAS: 106-97-8<br>EC: 203-448-7  | LD50 oral       | Non-applicable   |        |
|   | LD50 dermal     | Non-applicable   |        |
|   | LC50 inhalation | 658 mg/L (4 h)   | Rat    |
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8  | LD50 oral       | Non-applicable   |        |
|   | LD50 dermal     | Non-applicable   |        |
|   | LC50 inhalation | 308,5 mg/L (4 h) | Rat    |

\*\* Changes with regards to the previous version

**SECTION 12: ECOLOGICAL INFORMATION \*\***

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification  | Acute toxicity |                     | Species                   | Genus      |
|---|----------------|---------------------|---------------------------|------------|
|   |                |                     |                           |            |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>CAS: Non-applicable<br>EC: 921-024-6 | LC50           | 5.1 mg/L (96 h)     | Oncorhynchus mykiss       | Fish       |
|   | EC50           | Non-applicable      |                           |            |
|   | EC50           | Non-applicable      |                           |            |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0   | LC50           | 3220 mg/L (96 h)    | Pimephales promelas       | Fish       |
|   | EC50           | 5091 mg/L (48 h)    | Daphnia magna             | Crustacean |
|   | EC50           | 4300 mg/L (168 h)   | Scenedesmus quadricauda   | Algae      |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4                          | LC50           | 60.3 mg/L (96 h)    | Danio rerio               | Fish       |
|   | EC50           | 726 mg/L (48 h)     | Daphnia magna             | Crustacean |
|   | EC50           | 18.3 mg/L (72 h)    | Selenastrum capricornutum | Algae      |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4   | LC50           | Non-applicable      |                           |            |
|   | EC50           | 9.74 mg/L (48 h)    | Daphnia magna             | Crustacean |
|   | EC50           | Non-applicable      |                           |            |
| Tris(nonylphenyl) phosphite<br>CAS: 26523-78-4<br>EC: 247-759-6   | LC50           | 0.1 - 1 mg/L (96 h) |                           | Fish       |
|   | EC50           | 0.1 - 1 mg/L        |                           | Crustacean |
|   | EC50           | 0.1 - 1 mg/L        |                           | Algae      |

**12.2 Persistence and degradability:**

| Identification  | Degradability |                | Biodegradability |                |
|---|---------------|----------------|------------------|----------------|
|   |               |                |                  |                |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>CAS: Non-applicable<br>EC: 921-024-6 | BOD5          | Non-applicable | Concentration    | Non-applicable |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 98 %           |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0   | BOD5          | 2.03 g O2/g    | Concentration    | Non-applicable |
|   | COD           | 2.31 g O2/g    | Period           | 20 days        |
|   | BOD5/COD      | 0.88           | % Biodegradable  | 89 %           |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4                          | BOD5          | Non-applicable | Concentration    | 200 mg/L       |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 89,5 %         |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4   | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 96 %           |

**12.3 Bioaccumulative potential:**

\*\* Changes with regards to the previous version

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**SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)**

| Identification                              | Bioaccumulation potential |          |
|---|---------------------------|----------|
|   | BCF                       | Pow Log  |
| Butane<br>CAS: 106-97-8<br>EC: 203-448-7    | 33                        | 2.89     |
|   | Potential                 | Moderate |
| Propane<br>CAS: 74-98-6<br>EC: 200-827-9    | 13                        | 2.86     |
|   | Potential                 | Low      |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0 | 3                         | 0.29     |
|   | Potential                 | Low      |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4   | 171                       | 3.39     |
|   | Potential                 | High     |

**12.4 Mobility in soil:**

| Identification   | Absorption/desorption |                      | Volatility |                                  |
|--|-----------------------|----------------------|------------|----------------------------------|
|  | Koc                   | Non-applicable       | Henry      | Non-applicable                   |
| Dimethyl ether<br>CAS: 115-10-6<br>EC: 204-065-8                                 | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                   |
|  | Surface tension       | 1,136E-2 N/m (25 °C) | Moist soil | Non-applicable                   |
|  | Koc                   | 900                  | Henry      | 96258,75 Pa·m <sup>3</sup> /mol  |
| Butane<br>CAS: 106-97-8<br>EC: 203-448-7   | Conclusion            | Low                  | Dry soil   | Yes                              |
|  | Surface tension       | 1,187E-2 N/m (25 °C) | Moist soil | Yes                              |
|  | Koc                   | 460                  | Henry      | 71636,78 Pa·m <sup>3</sup> /mol  |
| Propane<br>CAS: 74-98-6<br>EC: 200-827-9   | Conclusion            | Moderate             | Dry soil   | Yes                              |
|  | Surface tension       | 7,02E-3 N/m (25 °C)  | Moist soil | Yes                              |
|  | Koc                   | 30                   | Henry      | 5,77 Pa·m <sup>3</sup> /mol      |
| 2-butanone<br>CAS: 78-93-3<br>EC: 201-159-0                                      | Conclusion            | Very High            | Dry soil   | Yes                              |
|  | Surface tension       | 2,396E-2 N/m (25 °C) | Moist soil | Yes                              |
|  | Koc                   | 41.83                | Henry      | Non-applicable                   |
| Resin acids and Rosin acids, potassium salts<br>CAS: 61790-50-9<br>EC: 263-142-4 | Conclusion            | Very High            | Dry soil   | Non-applicable                   |
|  | Surface tension       | Non-applicable       | Moist soil | Non-applicable                   |
|  | Koc                   | 80                   | Henry      | 126656,25 Pa·m <sup>3</sup> /mol |
| Pentane<br>CAS: 109-66-0<br>EC: 203-692-4  | Conclusion            | Very High            | Dry soil   | Yes                              |
|  | Surface tension       | 1,547E-2 N/m (25 °C) | Moist soil | Yes                              |

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

\*\* Changes with regards to the previous version

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description   | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Dangerous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP3 Flammable, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated  
Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2017 and RID 2017:



- 14.1 UN number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS, flammable
- 14.3 Transport hazard class(es):** 2  
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Special regulations: 190, 327, 344, 625  
Tunnel restriction code: D  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 38-16:



- 14.1 UN number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS, flammable
- 14.3 Transport hazard class(es):** 2  
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Special regulations: 63, 959, 190, 277, 327, 344  
EmS Codes: F-D, S-U  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2017:



- 14.1 UN number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS, flammable
- 14.3 Transport hazard class(es):** 2  
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

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**SECTION 15: REGULATORY INFORMATION (continued)**

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
Article 95, REGULATION (EU) No 528/2012: Non-applicable  
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION \*\***

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
  - Tris(nonylphenyl) phosphite (26523-78-4)
  - Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
  - Resin acids and Rosin acids, potassium salts (61790-50-9)
- Removed substances
  - Naphtha (petroleum), hydrotreated light , < 0.1 % EC 200-753-7 (64742-49-0)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Supplementary information

**Texts of the legislative phrases mentioned in section 2:**

H336: May cause drowsiness or dizziness  
H412: Harmful to aquatic life with long lasting effects  
H315: Causes skin irritation  
H229: Pressurised container: May burst if heated  
H222: Extremely flammable aerosol

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

\*\* Changes with regards to the previous version



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**SECTION 16: OTHER INFORMATION \*\* (continued)**

Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Gas 1: H220 - Extremely flammable gas  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
Press. Gas: H280 - Contains gas under pressure, may explode if heated  
Skin Irrit. 2: H315 - Causes skin irritation  
Skin Sens. 1: H317 - May cause an allergic skin reaction  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Classification procedure:**

STOT SE 3: Calculation method  
Aquatic Chronic 3: Calculation method  
Skin Irrit. 2: Calculation method  
Aerosol 1: Calculation method  
Aerosol 1: Calculation method

**Advice related to training:**

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon

*\*\* Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -