

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

- 1.1 Product identifier:** MINOS METALLIC PAINT SPRAY SILVER RAL 9007 - Metallic paint spray 24-102
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Spray paint  
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:** EVOCHEM S.A.  
Tzaverdella Place  
133 41 PHILI , ATTICA - GREECE  
Phone.: 0030 210 5590460 , 0030 210 5590155  
Fax: 0030 210 6254737 , 0030 210 5590244  
[info@evochem.gr](mailto:info@evochem.gr) ; [vmerqoupis@evochem.gr](mailto:vmerqoupis@evochem.gr) ;  
[sales@evochem.gr](mailto:sales@evochem.gr) [www.evochem.gr](http://www.evochem.gr)
- 1.4 Emergency telephone number:** National Poisoning Center 2107793777

## SECTION 2: HAZARDS IDENTIFICATION \*\*

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) n° 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.  
Aerosol 1: Pressurised container: May burst if heated., H229  
Aerosol 1: Flammable aerosols, Category 1, H222  
Eye Irrit. 2: Eye irritation, Category 2, H319  
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) n° 1272/2008:**  
**Danger**
-  
- Hazard statements:**  
Aerosol 1: H229 - Pressurized container: May burst if heated  
Aerosol 1: H222 - Extremely flammable aerosol  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211: Do not spray on an open flame or other ignition source  
P251: Do not pierce or burn, even after use  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F  
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality
- Supplementary information:**  
EUH066: Repeated exposure may cause skin dryness or cracking
- Substances that contribute to the classification**  
Acetone; N-butyl acetate
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

\*\* 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:** Mixture composed of additives, pigments and resins in solvents**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

| Identification                                                                       | Chemical name/Classification               |                                                                                                                                          | Concentration  |
|--------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS: 67-64-1<br>EC: 200-662-2<br>Index: 606-001-00-8<br>REACH 01-2119471330-49-XXX   | <b>Acetone</b> <sup>1</sup>                | ATP CLP00                                                                                                                                | 24 - <50 %     |
|                                                                                      | Regulation 1272/2008                       | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger                                                                 |                |
| CAS: 1330-20-7<br>EC: 215-535-7<br>Index: 601-022-00-9<br>REACH 01-2119488216-32-XXX | <b>Xylene</b> <sup>1</sup>                 | ATP CLP00                                                                                                                                | 9,9 - <19 %    |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning                                                               |                |
| CAS: 123-86-4<br>EC: 204-658-1<br>Index: 607-025-00-1<br>REACH 01-2119485493-29-XXX  | <b>N-butyl acetate</b> <sup>1</sup>        | ATP CLP00                                                                                                                                | 2,4 - <4,9 %   |
|                                                                                      | Regulation 1272/2008                       | Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning                                                                                    |                |
| CAS: 100-41-4<br>EC: 202-849-4<br>Index: 601-023-00-4<br>REACH 01-2119489370-35-XXX  | <b>Ethylbenzene</b> <sup>1</sup>           | ATP ATP06                                                                                                                                | 0,9 - <2,4 %   |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger                                                      |                |
| CAS: 67-56-1<br>EC: 200-659-6<br>Index: 603-001-00-X<br>REACH 01-2119433307-44-XXX   | <b>Methanol</b> <sup>1</sup>               | ATP CLP00                                                                                                                                | 0,24 - <0,9 %  |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 3: H301+H311+H331; Flam. Liq. 2: H225; STOT SE 1: H370 - Danger                                                               |                |
| CAS: 108-94-1<br>EC: 203-631-1<br>Index: 606-010-00-7<br>REACH 01-2119453616-35-XXX  | <b>Cyclohexanone</b> <sup>2</sup>          | ATP CLP00                                                                                                                                | 0,24 - <0,9 %  |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 4: H332; Flam. Liq. 3: H226 - Warning                                                                                         |                |
| CAS: 95-63-6<br>EC: 202-436-9<br>Index: 601-043-00-3<br>REACH 01-2119472135-42-XXX   | <b>1,2,4-trimethylbenzene</b> <sup>2</sup> | ATP CLP00                                                                                                                                | 0,09 - <0,24 % |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 4: H332; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning      |                |
| CAS: 111-76-2<br>EC: 203-905-0<br>Index: 603-014-00-0<br>REACH 01-2119475108-36-XXX  | <b>2-butoxyethanol</b> <sup>2</sup>        | ATP CLP00                                                                                                                                | <0,09 %        |
|                                                                                      | Regulation 1272/2008                       | Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning                                                          |                |
| CAS: 108-67-8<br>EC: 203-604-4<br>Index: 601-025-00-5<br>REACH Non-applicable        | <b>Mesitylene</b> <sup>2</sup>             | ATP CLP00                                                                                                                                | <0,09 %        |
|                                                                                      | Regulation 1272/2008                       | Aquatic Chronic 2: H411; Flam. Liq. 3: H226; STOT SE 3: H335 - Warning                                                                   |                |
| CAS: 98-82-8<br>EC: 202-704-5<br>Index: 601-024-00-X<br>REACH 01-2119473983-24-XXX   | <b>Cumene</b> <sup>2</sup>                 | ATP CLP00                                                                                                                                | <0,09 %        |
|                                                                                      | Regulation 1272/2008                       | Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335 - Danger                                                 |                |
| CAS: 71-43-2<br>EC: 200-753-7<br>Index: 601-020-00-8<br>REACH 01-2119496063-37-XXX   | <b>Benzene</b> <sup>2</sup>                | ATP CLP00                                                                                                                                | <0,09 %        |
|                                                                                      | Regulation 1272/2008                       | Asp. Tox. 1: H304; Carc. 1A: H350; Eye Irrit. 2: H319; Flam. Liq. 2: H225; Muta. 1B: H340; Skin Irrit. 2: H315; STOT RE 1: H372 - Danger |                |

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830<sup>2</sup> Substance with a Union workplace exposure limit

To obtain more information on the risk 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:**

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

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:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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 inertization agent. 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 spillage into an aqueous medium as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into an aqueous medium notify the relevant authority.

**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:**

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.

## 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 projections 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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

## A.- Technical measures for storage

Minimum Temp.: 5 °C  
Maximum Temp.: 35 °C  
Maximum time: 12 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 |         |                        |
|---------------------------------------------------------|----------------------|---------|------------------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2                | IOELV (8h)           | 500 ppm | 1210 mg/m <sup>3</sup> |
|                                                         | IOELV (STEL)         |         |                        |
|                                                         | Year                 | 2017    |                        |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7               | IOELV (8h)           | 50 ppm  | 221 mg/m <sup>3</sup>  |
|                                                         | IOELV (STEL)         | 100 ppm | 442 mg/m <sup>3</sup>  |
|                                                         | Year                 | 2017    |                        |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | IOELV (8h)           | 100 ppm | 442 mg/m <sup>3</sup>  |
|                                                         | IOELV (STEL)         | 200 ppm | 884 mg/m <sup>3</sup>  |
|                                                         | Year                 | 2017    |                        |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | IOELV (8h)           | 200 ppm | 260 mg/m <sup>3</sup>  |
|                                                         | IOELV (STEL)         |         |                        |
|                                                         | Year                 | 2017    |                        |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | IOELV (8h)           | 10 ppm  | 40.8 mg/m <sup>3</sup> |
|                                                         | IOELV (STEL)         | 20 ppm  | 81.6 mg/m <sup>3</sup> |
|                                                         | Year                 | 2017    |                        |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | IOELV (8h)           | 20 ppm  | 100 mg/m <sup>3</sup>  |
|                                                         | IOELV (STEL)         |         |                        |
|                                                         | Year                 | 2017    |                        |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | IOELV (8h)           | 20 ppm  | 98 mg/m <sup>3</sup>   |
|                                                         | IOELV (STEL)         | 50 ppm  | 246 mg/m <sup>3</sup>  |
|                                                         | Year                 | 2017    |                        |
| Mesitylene                                              | IOELV (8h)           | 20 ppm  | 100 mg/m <sup>3</sup>  |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification                           | Environmental limits |        |                        |
|------------------------------------------|----------------------|--------|------------------------|
| CAS: 108-67-8<br>EC: 203-604-4           | IOELV (STEL)         |        |                        |
|                                          | Year                 | 2017   |                        |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5  | IOELV (8h)           | 20 ppm | 100 mg/m <sup>3</sup>  |
|                                          | IOELV (STEL)         | 50 ppm | 250 mg/m <sup>3</sup>  |
|                                          | Year                 | 2017   |                        |
| Benzene<br>CAS: 71-43-2<br>EC: 200-753-7 | IOELV (8h)           | 1 ppm  | 3.25 mg/m <sup>3</sup> |
|                                          | IOELV (STEL)         |        |                        |
|                                          | Year                 | 2017   |                        |

**DNEL (Workers):**

| Identification                                          |            | Short exposure        |                        | Long exposure          |                       |
|---------------------------------------------------------|------------|-----------------------|------------------------|------------------------|-----------------------|
|                                                         |            | Systemic              | Local                  | Systemic               | Local                 |
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2                | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 186 mg/kg              | Non-applicable        |
|                                                         | Inhalation | Non-applicable        | 2420 mg/m <sup>3</sup> | 1210 mg/m <sup>3</sup> | Non-applicable        |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7               | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 180 mg/kg              | Non-applicable        |
|                                                         | Inhalation | 289 mg/m <sup>3</sup> | 289 mg/m <sup>3</sup>  | 77 mg/m <sup>3</sup>   | Non-applicable        |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1       | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Inhalation | 960 mg/m <sup>3</sup> | 960 mg/m <sup>3</sup>  | 480 mg/m <sup>3</sup>  | 480 mg/m <sup>3</sup> |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 180 mg/kg              | Non-applicable        |
|                                                         | Inhalation | Non-applicable        | 293 mg/m <sup>3</sup>  | 77 mg/m <sup>3</sup>   | Non-applicable        |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | 40 mg/kg              | Non-applicable         | 40 mg/kg               | Non-applicable        |
|                                                         | Inhalation | 260 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup>  | 260 mg/m <sup>3</sup>  | 260 mg/m <sup>3</sup> |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | 4 mg/kg               | Non-applicable         | 4 mg/kg                | Non-applicable        |
|                                                         | Inhalation | 80 mg/m <sup>3</sup>  | 80 mg/m <sup>3</sup>   | 40 mg/m <sup>3</sup>   | 40 mg/m <sup>3</sup>  |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 16171 mg/kg            | Non-applicable        |
|                                                         | Inhalation | 100 mg/m <sup>3</sup> | 100 mg/m <sup>3</sup>  | 100 mg/m <sup>3</sup>  | 100 mg/m <sup>3</sup> |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | 89 mg/kg              | Non-applicable         | 75 mg/kg               | Non-applicable        |
|                                                         | Inhalation | 663 mg/m <sup>3</sup> | 246 mg/m <sup>3</sup>  | 98 mg/m <sup>3</sup>   | Non-applicable        |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 16171 mg/kg            | Non-applicable        |
|                                                         | Inhalation | 100 mg/m <sup>3</sup> | 100 mg/m <sup>3</sup>  | 100 mg/m <sup>3</sup>  | 100 mg/m <sup>3</sup> |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable        |
|                                                         | Dermal     | Non-applicable        | Non-applicable         | 15,4 mg/kg             | Non-applicable        |
|                                                         | Inhalation | Non-applicable        | 250 mg/m <sup>3</sup>  | 100 mg/m <sup>3</sup>  | Non-applicable        |

**DNEL (General population):**

| Identification                                    |            | Short exposure          |                         | Long exposure            |                          |
|---------------------------------------------------|------------|-------------------------|-------------------------|--------------------------|--------------------------|
|                                                   |            | Systemic                | Local                   | Systemic                 | Local                    |
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2          | Oral       | Non-applicable          | Non-applicable          | 62 mg/kg                 | Non-applicable           |
|                                                   | Dermal     | Non-applicable          | Non-applicable          | 62 mg/kg                 | Non-applicable           |
|                                                   | Inhalation | Non-applicable          | Non-applicable          | 200 mg/m <sup>3</sup>    | Non-applicable           |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7         | Oral       | Non-applicable          | Non-applicable          | 1,6 mg/kg                | Non-applicable           |
|                                                   | Dermal     | Non-applicable          | Non-applicable          | 108 mg/kg                | Non-applicable           |
|                                                   | Inhalation | Non-applicable          | Non-applicable          | 14,8 mg/m <sup>3</sup>   | Non-applicable           |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1 | Oral       | Non-applicable          | Non-applicable          | Non-applicable           | Non-applicable           |
|                                                   | Dermal     | Non-applicable          | Non-applicable          | Non-applicable           | Non-applicable           |
|                                                   | Inhalation | 859,7 mg/m <sup>3</sup> | 859,7 mg/m <sup>3</sup> | 102,34 mg/m <sup>3</sup> | 102,34 mg/m <sup>3</sup> |

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

| Identification                                          |            | Short exposure         |                        | Long exposure          |                        |
|---------------------------------------------------------|------------|------------------------|------------------------|------------------------|------------------------|
|                                                         |            | Systemic               | Local                  | Systemic               | Local                  |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | Oral       | Non-applicable         | Non-applicable         | 1,6 mg/kg              | Non-applicable         |
|                                                         | Dermal     | Non-applicable         | Non-applicable         | Non-applicable         | Non-applicable         |
|                                                         | Inhalation | Non-applicable         | Non-applicable         | 15 mg/m <sup>3</sup>   | Non-applicable         |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | Oral       | 8 mg/kg                | Non-applicable         | 8 mg/kg                | Non-applicable         |
|                                                         | Dermal     | 8 mg/kg                | Non-applicable         | 8 mg/kg                | Non-applicable         |
|                                                         | Inhalation | 50 mg/m <sup>3</sup>   | 50 mg/m <sup>3</sup>   | 50 mg/m <sup>3</sup>   | 50 mg/m <sup>3</sup>   |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | Oral       | 1,5 mg/kg              | Non-applicable         | 1,5 mg/kg              | Non-applicable         |
|                                                         | Dermal     | 1 mg/kg                | Non-applicable         | 1 mg/kg                | Non-applicable         |
|                                                         | Inhalation | 20 mg/m <sup>3</sup>   | 40 mg/m <sup>3</sup>   | 10 mg/m <sup>3</sup>   | 20 mg/m <sup>3</sup>   |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | Oral       | Non-applicable         | Non-applicable         | 15 mg/kg               | Non-applicable         |
|                                                         | Dermal     | Non-applicable         | Non-applicable         | 9512 mg/kg             | Non-applicable         |
|                                                         | Inhalation | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | Oral       | 13,4 mg/kg             | Non-applicable         | 3,2 mg/kg              | Non-applicable         |
|                                                         | Dermal     | 44,5 mg/kg             | Non-applicable         | 38 mg/kg               | Non-applicable         |
|                                                         | Inhalation | 426 mg/m <sup>3</sup>  | 123 mg/m <sup>3</sup>  | 49 mg/m <sup>3</sup>   | Non-applicable         |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | Oral       | Non-applicable         | Non-applicable         | 15 mg/kg               | Non-applicable         |
|                                                         | Dermal     | Non-applicable         | Non-applicable         | 9512 mg/kg             | Non-applicable         |
|                                                         | Inhalation | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> | 29,4 mg/m <sup>3</sup> |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | Oral       | Non-applicable         | Non-applicable         | 5 mg/kg                | Non-applicable         |
|                                                         | Dermal     | Non-applicable         | Non-applicable         | 1,2 mg/kg              | Non-applicable         |
|                                                         | Inhalation | Non-applicable         | Non-applicable         | 16,6 mg/m <sup>3</sup> | Non-applicable         |

**PNEC:**

| Identification                                          |              |                |                         |
|---------------------------------------------------------|--------------|----------------|-------------------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2                | STP          | 100 mg/L       | Fresh water             |
|                                                         | Soil         | 29,5 mg/kg     | Marine water            |
|                                                         | Intermittent | 21 mg/L        | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7               | STP          | 6,58 mg/L      | Fresh water             |
|                                                         | Soil         | 2,31 mg/kg     | Marine water            |
|                                                         | Intermittent | 0,327 mg/L     | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1       | STP          | 35,6 mg/L      | Fresh water             |
|                                                         | Soil         | 0,0903 mg/kg   | Marine water            |
|                                                         | Intermittent | 0,36 mg/L      | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | STP          | 9,6 mg/L       | Fresh water             |
|                                                         | Soil         | 2,68 mg/kg     | Marine water            |
|                                                         | Intermittent | 0,1 mg/L       | Sediment (Fresh water)  |
|                                                         | Oral         | 20 g/kg        | Sediment (Marine water) |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | STP          | 100 mg/L       | Fresh water             |
|                                                         | Soil         | 23,5 mg/kg     | Marine water            |
|                                                         | Intermittent | 1540 mg/L      | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | STP          | 10 mg/L        | Fresh water             |
|                                                         | Soil         | 0,0143 mg/kg   | Marine water            |
|                                                         | Intermittent | 0,329 mg/L     | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | STP          | 2,41 mg/L      | Fresh water             |
|                                                         | Soil         | 2,34 mg/kg     | Marine water            |
|                                                         | Intermittent | 0,12 mg/L      | Sediment (Fresh water)  |
|                                                         | Oral         | Non-applicable | Sediment (Marine water) |

- CONTINUED ON NEXT PAGE -



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

| Identification                                    |              |                |                         |                |
|---------------------------------------------------|--------------|----------------|-------------------------|----------------|
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | STP          | 463 mg/L       | Fresh water             | 8,8 mg/L       |
|                                                   | Soil         | 3,13 mg/kg     | Marine water            | 0,88 mg/L      |
|                                                   | Intermittent | 9,1 mg/L       | Sediment (Fresh water)  | 34,6 mg/kg     |
|                                                   | Oral         | 20 g/kg        | Sediment (Marine water) | Non-applicable |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4      | STP          | 2,02 mg/L      | Fresh water             | 0,101 mg/L     |
|                                                   | Soil         | 1,34 mg/kg     | Marine water            | 0,101 mg/L     |
|                                                   | Intermittent | 0,101 mg/L     | Sediment (Fresh water)  | 7,86 mg/kg     |
|                                                   | Oral         | Non-applicable | Sediment (Marine water) | 7,86 mg/kg     |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5           | STP          | 200 mg/L       | Fresh water             | 0,035 mg/L     |
|                                                   | Soil         | 0,624 mg/kg    | Marine water            | 0,0035 mg/L    |
|                                                   | Intermittent | 0,012 mg/L     | Sediment (Fresh water)  | 3,22 mg/kg     |
|                                                   | Oral         | Non-applicable | Sediment (Marine water) | 0,322 mg/kg    |

## 8.2 Exposure controls:

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

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection 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

| Pictogram                                                                                                                     | PPE                                          | Labelling                                                                                      | CEN Standard                               | Remarks                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases, vapours and particles | <br>CAT III | EN 149:2001+A1:2009<br>EN 405:2001+A1:2009 | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. |

## C.- Specific protection for the hands

| Pictogram                                                                                                        | PPE                                       | Labelling                                                                                      | CEN Standard                                                  | Remarks                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory hand protection | NON-disposable chemical protective gloves | <br>CAT III | EN 374-1:2003<br>EN 374-3:2003/AC:2006<br>EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application

## D.- Ocular and facial protection

| Pictogram                                                                                                        | PPE       | Labelling                                                                                     | CEN Standard                                                  | Remarks                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Face mask | <br>CAT II | EN 166:2001<br>EN 167:2001<br>EN 168:2001<br>EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

## E.- Bodily protection

| Pictogram                                                                                                                 | PPE                                                                                                 | Labelling                                                                                      | CEN Standard                                                                                                                                      | Remarks                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | <br>CAT III | EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2001<br>EN ISO 6530:2005<br>EN ISO 13688:2013<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |

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

| Pictogram                                                                                                      | PPE                                                                                                 | Labelling                                                                         | CEN Standard                                          | Remarks                                     |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|
| <br>Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties |  | EN 13287:2008<br>EN ISO 20345:2011<br>EN 13832-1:2006 | Replace boots at any sign of deterioration. |

## F.- Additional emergency measures

| Emergency measure                                                                                     | Standards                      | Emergency measure                                                                                      | Standards                     |
|-------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2002 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2002 |

**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): 86,56 % weight  
 V.O.C. density at 20 °C: 735,78 kg/m<sup>3</sup> (735,78 g/L)  
 Average carbon number: 4,09  
 Average molecular weight: 70,1 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 °C: 735,78 kg/m<sup>3</sup> (735,78 g/L)  
 EUlimit for the product (Cat. B.E): 840 g/L (2010)  
 Components: Non-applicable

## 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:  Silver  
 Odour: Characteristic  
 Odour threshold: Non-applicable \*

**Volatility:**

Boiling point at atmospheric pressure: -42 °C (Propellant)  
 Vapour pressure at 20 °C: Non-applicable \*  
 Vapour pressure at 50 °C: <300000 Pa (300 kPa)  
 Evaporation rate at 20 °C: Non-applicable \*

**Product description:**

Density at 20 °C: 850 kg/m<sup>3</sup>  
 Relative density at 20 °C: Non-applicable \*  
 Dynamic viscosity at 20 °C: Non-applicable \*  
 Kinematic viscosity at 20 °C: Non-applicable \*  
 Kinematic viscosity at 40 °C: Non-applicable \*  
 Concentration: 850 g/L (active ingredient)

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

- CONTINUED ON NEXT PAGE -



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

|                                              |                      |
|----------------------------------------------|----------------------|
| 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:                          | Non-applicable *     |
| Explosive properties:                        | Non-applicable *     |
| Oxidising properties:                        | Non-applicable *     |
| <b>Flammability:</b>                         |                      |
| Flash Point:                                 | -104 °C (Propellant) |
| Flammability (solid, gas):                   | Non-applicable *     |
| Autoignition temperature:                    | 410 °C (Propellant)  |
| Lower flammability limit:                    | Non-applicable *     |
| Upper flammability limit:                    | Non-applicable *     |
| <b>Explosive:</b>                            |                      |
| Lower explosive limit:                       | Non-applicable *     |
| Upper explosive limit:                       | Non-applicable *     |
| <b>9.2 Other information:</b>                |                      |
| 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.<br>Can react violently |

**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

- CONTINUED ON NEXT PAGE -

## 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. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

**Dangerous health implications:**

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

**A.- Ingestion (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains 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, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. 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: Produces eye damage after contact.

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

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

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

Exposure in high concentration can cause a breakdown in 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, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

**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:**

| Identification                            | Acute toxicity  |                      | Genus |
|-------------------------------------------|-----------------|----------------------|-------|
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7 | LD50 oral       | 2100 mg/kg           | Rat   |
|                                           | LD50 dermal     | 1100 mg/kg (ATEI)    | Rat   |
|                                           | LC50 inhalation | 11 mg/L (4 h) (ATEI) |       |

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

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

| Identification                                          | Acute toxicity  |                  | Genus  |
|---------------------------------------------------------|-----------------|------------------|--------|
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | LD50 oral       | 3500 mg/kg       | Rat    |
|                                                         | LD50 dermal     | 15354 mg/kg      | Rabbit |
|                                                         | LC50 inhalation | 17,2 mg/L (4 h)  | Rat    |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | LD50 oral       | 100 mg/kg        | Rat    |
|                                                         | LD50 dermal     | 300 mg/kg        | Rabbit |
|                                                         | LC50 inhalation | 3 mg/L (4 h)     | Rat    |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1       | LD50 oral       | 12789 mg/kg      | Rat    |
|                                                         | LD50 dermal     | 14112 mg/kg      | Rabbit |
|                                                         | LC50 inhalation | 23,4 mg/L (4 h)  | Rat    |
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2                | LD50 oral       | 5800 mg/kg       | Rat    |
|                                                         | LD50 dermal     | 7426 mg/kg       | Rabbit |
|                                                         | LC50 inhalation | 76 mg/L (4 h)    | Rat    |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | LD50 oral       | 2650 mg/kg       | Rat    |
|                                                         | LD50 dermal     | 3160 mg/kg       | Rabbit |
|                                                         | LC50 inhalation | 11 mg/L (4 h)    | Rat    |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | LD50 oral       | 3400 mg/kg       | Rat    |
|                                                         | LD50 dermal     | 3160 mg/kg       | Rabbit |
|                                                         | LC50 inhalation | 11 mg/L (4 h)    | Rat    |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | LD50 oral       | 500 mg/kg        | Rat    |
|                                                         | LD50 dermal     | 1100 mg/kg       | Rat    |
|                                                         | LC50 inhalation | 11 mg/L (4 h)    | Rat    |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | LD50 oral       | 6000 mg/kg       | Rat    |
|                                                         | LD50 dermal     | Non-applicable   |        |
|                                                         | LC50 inhalation | Non-applicable   |        |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | LD50 oral       | 2700 mg/kg       |        |
|                                                         | LD50 dermal     | Non-applicable   |        |
|                                                         | LC50 inhalation | Non-applicable   |        |
| Benzene<br>CAS: 71-43-2<br>EC: 200-753-7                | LD50 oral       | 2900 mg/kg       | Rat    |
|                                                         | LD50 dermal     | 8263 mg/kg       | Rabbit |
|                                                         | LC50 inhalation | 44,45 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      |
|---------------------------------------------------|----------------|------------------|-------------------------|------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2          | LC50           | 5540 mg/L (96 h) | Oncorhynchus mykiss     | Fish       |
|                                                   | EC50           | 23.5 mg/L (48 h) | Daphnia magna           | Crustacean |
|                                                   | EC50           | 3400 mg/L (48 h) | Chlorella pyrenoidosa   | Algae      |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7         | LC50           | 13.5 mg/L (96 h) | Oncorhynchus mykiss     | Fish       |
|                                                   | EC50           | 0.6 mg/L (96 h)  | Gammarus lacustris      | Crustacean |
|                                                   | EC50           | 10 mg/L (72 h)   | Skeletonema costatum    | Algae      |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1 | LC50           | 62 mg/L (96 h)   | Leuciscus idus          | Fish       |
|                                                   | EC50           | 73 mg/L (24 h)   | Daphnia magna           | Crustacean |
|                                                   | EC50           | 675 mg/L (72 h)  | Scenedesmus subspicatus | Algae      |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4    | LC50           | 42.3 mg/L (96 h) | Pimephales promelas     | Fish       |
|                                                   | EC50           | 75 mg/L (48 h)   | Daphnia magna           | Crustacean |
|                                                   | EC50           | 63 mg/L (3 h)    | Chlorella vulgaris      | Algae      |

\*\* Changes with regards to the previous version

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

| Identification                                          | Acute toxicity |                   | Species                         | Genus      |
|---------------------------------------------------------|----------------|-------------------|---------------------------------|------------|
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | LC50           | 15400 mg/L (96 h) | Lepomis macrochirus             | Fish       |
|                                                         | EC50           | 12000 mg/L (96 h) | Nitrocras spinipes              | Crustacean |
|                                                         | EC50           | 530 mg/L (168 h)  | Microcystis aeruginosa          | Algae      |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | LC50           | 527 mg/L (96 h)   | Pimephales promelas             | Fish       |
|                                                         | EC50           | 800 mg/L (24 h)   | Daphnia magna                   | Crustacean |
|                                                         | EC50           | 370 mg/L (192 h)  | Scenedesmus quadricauda         | Algae      |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | LC50           | 7.72 mg/L (96 h)  | Pimephales promelas             | Fish       |
|                                                         | EC50           | 6.14 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|                                                         | EC50           | Non-applicable    |                                 |            |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | LC50           | 1490 mg/L (96 h)  | Lepomis macrochirus             | Fish       |
|                                                         | EC50           | 1815 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|                                                         | EC50           | 911 mg/L (72 h)   | Pseudokirchneriella subcapitata | Algae      |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | LC50           | 12.5 mg/L (96 h)  | Carassius auratus               | Fish       |
|                                                         | EC50           | 50 mg/L (24 h)    | Daphnia magna                   | Crustacean |
|                                                         | EC50           | 53 mg/L (48 h)    | Scenedesmus subspicatus         | Algae      |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | LC50           | 2.7 mg/L (96 h)   | Salmo gairdneri                 | Fish       |
|                                                         | EC50           | 10.8 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|                                                         | EC50           | 2.6 mg/L (72 h)   | Selenastrum capricornutum       | Algae      |
| Benzene<br>CAS: 71-43-2<br>EC: 200-753-7                | LC50           | 5.9 mg/L (96 h)   | Oncorhynchus mykiss             | Fish       |
|                                                         | EC50           | 66 mg/L (24 h)    | Artemia salina                  | Crustacean |
|                                                         | EC50           | 29 mg/L (72 h)    | Pseudokirchneriella subcapitata | Algae      |

## 12.2 Persistence and degradability:

| Identification                                          | Degradability |                          | Biodegradability |                |
|---------------------------------------------------------|---------------|--------------------------|------------------|----------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2                | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 28 days        |
|                                                         | BOD5/COD      | 0.96                     | % Biodegradable  | 96 %           |
| N-butyl acetate<br>CAS: 123-86-4<br>EC: 204-658-1       | BOD5          | Non-applicable           | Concentration    | Non-applicable |
|                                                         | COD           | Non-applicable           | Period           | 5 days         |
|                                                         | BOD5/COD      | 0.79                     | % Biodegradable  | 84 %           |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4          | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 14 days        |
|                                                         | BOD5/COD      | Non-applicable           | % Biodegradable  | 90 %           |
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | 1.42 g O <sub>2</sub> /g | Period           | 14 days        |
|                                                         | BOD5/COD      | Non-applicable           | % Biodegradable  | 92 %           |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 14 days        |
|                                                         | BOD5/COD      | 0.65                     | % Biodegradable  | 87 %           |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 28 days        |
|                                                         | BOD5/COD      | 0.43                     | % Biodegradable  | 18 %           |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | BOD5          | 0.71 g O <sub>2</sub> /g | Concentration    | 100 mg/L       |
|                                                         | COD           | 2.2 g O <sub>2</sub> /g  | Period           | 14 days        |
|                                                         | BOD5/COD      | 0.32                     | % Biodegradable  | 96 %           |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 14 days        |
|                                                         | BOD5/COD      | Non-applicable           | % Biodegradable  | 0 %            |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | BOD5          | Non-applicable           | Concentration    | 100 mg/L       |
|                                                         | COD           | Non-applicable           | Period           | 14 days        |
|                                                         | BOD5/COD      | Non-applicable           | % Biodegradable  | 40 %           |

\*\* Changes with regards to the previous version

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

| Identification | Degradability |                | Biodegradability |          |
|----------------|---------------|----------------|------------------|----------|
| Benzene        | BOD5          | Non-applicable | Concentration    | 100 mg/L |
| CAS: 71-43-2   | COD           | Non-applicable | Period           | 14 days  |
| EC: 200-753-7  | BOD5/COD      | Non-applicable | % Biodegradable  | 40 %     |

## 12.3 Bioaccumulative potential:

| Identification         | Bioaccumulation potential |       |
|------------------------|---------------------------|-------|
| Acetone                | BCF                       | 1     |
| CAS: 67-64-1           | Pow Log                   | -0.24 |
| EC: 200-662-2          | Potential                 | Low   |
| Xylene                 | BCF                       | 9     |
| CAS: 1330-20-7         | Pow Log                   | 2.77  |
| EC: 215-535-7          | Potential                 | Low   |
| N-butyl acetate        | BCF                       | 4     |
| CAS: 123-86-4          | Pow Log                   | 1.78  |
| EC: 204-658-1          | Potential                 | Low   |
| Ethylbenzene           | BCF                       | 1     |
| CAS: 100-41-4          | Pow Log                   | 3.15  |
| EC: 202-849-4          | Potential                 | Low   |
| Methanol               | BCF                       | 3     |
| CAS: 67-56-1           | Pow Log                   | -0.77 |
| EC: 200-659-6          | Potential                 | Low   |
| Cyclohexanone          | BCF                       | 2     |
| CAS: 108-94-1          | Pow Log                   | 0.81  |
| EC: 203-631-1          | Potential                 | Low   |
| 1,2,4-trimethylbenzene | BCF                       | 154   |
| CAS: 95-63-6           | Pow Log                   | 3.78  |
| EC: 202-436-9          | Potential                 | High  |
| 2-butoxyethanol        | BCF                       | 3     |
| CAS: 111-76-2          | Pow Log                   | 0.83  |
| EC: 203-905-0          | Potential                 | Low   |
| Mesitylene             | BCF                       | 182   |
| CAS: 108-67-8          | Pow Log                   | 3.42  |
| EC: 203-604-4          | Potential                 | High  |
| Cumene                 | BCF                       | 120   |
| CAS: 98-82-8           | Pow Log                   | 3.66  |
| EC: 202-704-5          | Potential                 | High  |
| Benzene                | BCF                       | 4     |
| CAS: 71-43-2           | Pow Log                   | 2.13  |
| EC: 200-753-7          | Potential                 | Low   |

## 12.4 Mobility in soil:

| Identification  | Absorption/desorption |                      | Volatility |                               |
|-----------------|-----------------------|----------------------|------------|-------------------------------|
| Acetone         | Koc                   | 1                    | Henry      | 2,93 Pa·m <sup>3</sup> /mol   |
| CAS: 67-64-1    | Conclusion            | Very High            | Dry soil   | Yes                           |
| EC: 200-662-2   | Surface tension       | 2,304E-2 N/m (25 °C) | Moist soil | Yes                           |
| Xylene          | Koc                   | 202                  | Henry      | 524,86 Pa·m <sup>3</sup> /mol |
| CAS: 1330-20-7  | Conclusion            | Moderate             | Dry soil   | Yes                           |
| EC: 215-535-7   | Surface tension       | Non-applicable       | Moist soil | Yes                           |
| N-butyl acetate | Koc                   | Non-applicable       | Henry      | Non-applicable                |
| CAS: 123-86-4   | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                |
| EC: 204-658-1   | Surface tension       | 2,478E-2 N/m (25 °C) | Moist soil | Non-applicable                |
| Ethylbenzene    | Koc                   | 520                  | Henry      | 798,44 Pa·m <sup>3</sup> /mol |
| CAS: 100-41-4   | Conclusion            | Moderate             | Dry soil   | Yes                           |
| EC: 202-849-4   | Surface tension       | 2,859E-2 N/m (25 °C) | Moist soil | Yes                           |

\*\* Changes with regards to the previous version

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

| Identification                                          | Absorption/desorption |                      | Volatility |                                 |
|---------------------------------------------------------|-----------------------|----------------------|------------|---------------------------------|
| Methanol<br>CAS: 67-56-1<br>EC: 200-659-6               | Koc                   | Non-applicable       | Henry      | Non-applicable                  |
|                                                         | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|                                                         | Surface tension       | 2,355E-2 N/m (25 °C) | Moist soil | Non-applicable                  |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1         | Koc                   | 17                   | Henry      | 9,119E-1 Pa·m <sup>3</sup> /mol |
|                                                         | Conclusion            | Very High            | Dry soil   | Yes                             |
|                                                         | Surface tension       | 3,437E-2 N/m (25 °C) | Moist soil | Yes                             |
| 1,2,4-trimethylbenzene<br>CAS: 95-63-6<br>EC: 202-436-9 | Koc                   | 537                  | Henry      | 624,16 Pa·m <sup>3</sup> /mol   |
|                                                         | Conclusion            | Low                  | Dry soil   | Yes                             |
|                                                         | Surface tension       | 2,919E-2 N/m (25 °C) | Moist soil | Yes                             |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0       | Koc                   | 8                    | Henry      | 1,621E-1 Pa·m <sup>3</sup> /mol |
|                                                         | Conclusion            | Very High            | Dry soil   | No                              |
|                                                         | Surface tension       | 2,729E-2 N/m (25 °C) | Moist soil | Yes                             |
| Mesitylene<br>CAS: 108-67-8<br>EC: 203-604-4            | Koc                   | 1445                 | Henry      | 888,62 Pa·m <sup>3</sup> /mol   |
|                                                         | Conclusion            | Low                  | Dry soil   | Yes                             |
|                                                         | Surface tension       | 2,805E-2 N/m (25 °C) | Moist soil | Yes                             |
| Cumene<br>CAS: 98-82-8<br>EC: 202-704-5                 | Koc                   | Non-applicable       | Henry      | Non-applicable                  |
|                                                         | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|                                                         | Surface tension       | 2,769E-2 N/m (25 °C) | Moist soil | Non-applicable                  |
| Benzene<br>CAS: 71-43-2<br>EC: 200-753-7                | Koc                   | Non-applicable       | Henry      | Non-applicable                  |
|                                                         | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|                                                         | Surface tension       | 2,821E-2 N/m (25 °C) | Moist soil | Non-applicable                  |

**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 dangerous substances | Dangerous                                  |

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

HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

**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 recommend disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) n°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:

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## SECTION 14: TRANSPORT INFORMATION (continued)



- 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

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 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: Contains Benzene

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

- CONTINUED ON NEXT PAGE -

## SECTION 15: REGULATORY INFORMATION (continued)

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone, Aluminium powder (stabilised). Product under the provisions of Article 9

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 data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

**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) N° 1907/2006 (Regulation (EC) N° 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
  - N-butyl acetate (123-86-4)
  - Mesitylene (108-67-8)

CLP Regulation (EC) n° 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements

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

H315: Causes skin irritation

H336: May cause drowsiness or dizziness

H229: Pressurised container: May burst if heated

H222: Extremely flammable aerosol

H319: Causes serious eye irritation

**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) n° 1272/2008:**

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

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled  
Acute Tox. 4: H332 - Harmful if inhaled  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Carc. 1A: H350 - May cause cancer  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Muta. 1B: H340 - May cause genetic defects  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure  
STOT SE 1: H370 - Causes damage to organs  
STOT SE 3: H335 - May cause respiratory irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Classification procedure:**

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

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order 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 -