


## 510101 - Solvent 101 PU Medium

## SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** 510101 - Solvent 101 PU Medium  
**Other means of identification:**  
Not applicable (N/A)
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Solvent. For industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**  
Valresa Coatings, S.A.  
Pol. Ind. Reva S-13 Avda. dels Grems s/n  
46190 Riba-roja de Turia - Valencia - Spain  
Phone: +34 961669560 - Fax: +34 961668665  
safety@valresa.com  
www.valresa.com
- 1.4 Emergency phone number:** +1 772 284 5590 (Only available during office hours)

## SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**29 CFR 1910.1200:**  
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.  
Asp. Tox. 1: Aspiration hazard, Category 1, H304  
Eye Irrit. 2A: Eye irritation, Category 2A, H319  
Flam. Liq. 2: Flammable liquids, Category 2, H225  
Skin Irrit. 2: Skin irritation, Category 2, H315  
STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2 (Oral), H373  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**  
**29 CFR 1910.1200:**  
**Danger**
- 
- Hazard statements:**  
May be fatal if swallowed and enters airways.  
Causes serious eye irritation.  
Highly flammable liquid and vapour.  
Causes skin irritation.  
May cause damage to organs through prolonged or repeated exposure (Oral).  
May cause drowsiness or dizziness.  
May cause respiratory irritation.
- Precautionary statements:**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of fire: Use ABC powder extinguisher to put it out.  
Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Substances that contribute to the classification**  
Reaction mass of ethylbenzene and m-xylene and p-xylene ; N-butyl acetate; acetone; 2-methoxy-1-methylethyl acetate
- Additional labeling:**



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**510101 - Solvent 101 PU Medium****SECTION 2: HAZARD(S) IDENTIFICATION (continued)****WARNING**

This product can expose you to chemicals including methanol, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**2.3 Hazards not otherwise classified (HNOC):**

Not applicable (N/A)

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances:**

Non-applicable

**3.2 Mixtures:**

**Chemical description:** Solvent/s

**Components:**

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

| Identification      | Chemical name  | Concentration         |
|---------------------|--|-----------------------|
| CAS: Non-applicable | <b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b> | <b>25 - &lt;50 %</b>  |
| CAS: 123-86-4       | <b>N-butyl acetate</b>   | <b>25 - &lt;50 %</b>  |
| CAS: 67-64-1        | <b>acetone</b>   | <b>10 - &lt;25 %</b>  |
| CAS: 108-65-6       | <b>2-methoxy-1-methylethyl acetate</b>                         | <b>2,5 - &lt;5 %</b>  |
| CAS: 79-20-9        | <b>methyl acetate</b>  | <b>2,5 - &lt;5 %</b>  |
| CAS: 67-56-1        | <b>methanol</b>  | <b>0,25 - &lt;1 %</b> |

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

**SECTION 4: FIRST-AID MEASURES****4.1 Description of necessary 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:**

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:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

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

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

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:**

Not applicable (N/A)

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1 Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Specific hazards arising from the chemical:**

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 Special protective equipment and precautions for fire-fighters:**

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,...)

**Additional provisions:**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. 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:**

**For non-emergency personnel:**

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. Remove 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.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

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

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

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.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. 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**

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations on general occupational hygiene**

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.: 41 °F

**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 workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

| Identification   | Occupational exposure limits |          |                        |
|--|------------------------------|----------|------------------------|
|  | 8-hour TWA PEL               | 1000 ppm | 2400 mg/m <sup>3</sup> |
| acetone<br>CAS: 67-64-1  | Ceiling Values - TWA PEL     |          |                        |
| methanol<br>CAS: 67-56-1   | 8-hour TWA PEL               | 200 ppm  | 260 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |
| methyl acetate<br>CAS: 79-20-9   | 8-hour TWA PEL               | 200 ppm  | 610 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |
| N-butyl acetate<br>CAS: 123-86-4   | 8-hour TWA PEL               | 150 ppm  | 710 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 8-hour TWA PEL               | 100 ppm  | 435 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |

US. ACGIH Threshold Limit Values (2022):

| Identification  | Occupational exposure limits |         |  |
|---|------------------------------|---------|--|
|   | TLV-TWA                      | 250 ppm |  |
| acetone<br>CAS: 67-64-1                                 | TLV-STEL                     | 500 ppm |  |
| 2-methoxypropyl acetate<br>CAS: 70657-70-4              | TLV-TWA                      | 20 ppm  |  |
|   | TLV-STEL                     | 40 ppm  |  |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6        | TLV-TWA                      | 50 ppm  |  |
|   | TLV-STEL                     | 75 ppm  |  |
| methanol<br>CAS: 67-56-1                                | TLV-TWA                      | 200 ppm |  |
|   | TLV-STEL                     | 250 ppm |  |
| methyl acetate<br>CAS: 79-20-9                          | TLV-TWA                      | 200 ppm |  |
|   | TLV-STEL                     | 250 ppm |  |
| N-butyl acetate<br>CAS: 123-86-4                        | TLV-TWA                      | 20 ppm  |  |
|   | TLV-STEL                     |         |  |
| Reaction mass of ethylbenzene and m-xylene and p-xylene | TLV-TWA                      | 100 ppm |  |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limit Values (2022):

| Identification      | Occupational exposure limits |  |
|---------------------|------------------------------|--|
|                     | TLV-STEL                     |  |
| CAS: Non-applicable | 150 ppm                      |  |

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

| Identification   | Occupational exposure limits      |  |
|--|-----------------------------------|--|
|  | PEL                               | STEL   |
| acetone<br>CAS: 67-64-1  | 500 ppm<br>1200 mg/m <sup>3</sup> | 1200 mg/m <sup>3</sup><br>1780 mg/m <sup>3</sup> |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6                               | 100 ppm<br>811 ppm                | 541 mg/m <sup>3</sup>                            |
| methanol<br>CAS: 67-56-1   | 200 ppm<br>250 ppm                | 260 mg/m <sup>3</sup><br>325 mg/m <sup>3</sup>   |
| methyl acetate<br>CAS: 79-20-9   | 200 ppm<br>250 ppm                | 610 mg/m <sup>3</sup><br>760 mg/m <sup>3</sup>   |
| N-butyl acetate<br>CAS: 123-86-4   | 150 ppm<br>200 ppm                | 710 mg/m <sup>3</sup><br>950 mg/m <sup>3</sup>   |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 100 ppm<br>150 ppm                | 435 mg/m <sup>3</sup><br>655 mg/m <sup>3</sup>   |

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH


| Identification   | BEIs®            | Determinant                   | Sampling Time |
|--|------------------|-------------------------------|---------------|
| acetone<br>CAS: 67-64-1  | 25 mg/L          | Acetone in urine              | End of shift  |
| methanol<br>CAS: 67-56-1   | 15 mg/L          | Methanol in urine             | End of shift  |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 1500 mg/g (NULL) | Methylhippuric acids in urine | End of shift  |

8.2 Appropriate engineering controls:


A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. 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, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

| Pictogram   | PPE                               | Remarks  |
|---|-----------------------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR) |

C.- Specific protection for the hands

| Pictogram  | PPE   | Remarks  |
|--|---|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Linear low density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | 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. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR) |


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.- Eye and face protection



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

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

| Pictogram  | PPE   | Remarks   |
|--|---|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR) |

E.- Bodily protection

| Pictogram   | PPE   | Remarks  |
|---|---|--|
| <br>Mandatory complete body protection | Antistatic and fireproof protective clothing                  | Limited protection against flames.   |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR) |

F.- Additional emergency measures

| Emergency measure  | Standards                                       | Emergency measure   | Standards                                      |
|--|---|---|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**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

**40 CFR Part 59 (VOC):**

V.O.C.(weight-percent): 86 % weight  
V.O.C. at 77 °F: 873.05 kg/m<sup>3</sup> (873.05 g/L)

**California Air Resources Board (CARB) - VOC Regulatory:**

V.O.C.(weight-percent): 86 % weight  
V.O.C. at 77 °F: 873.05 kg/m<sup>3</sup> (873.05 g/L)

**South Coast Air Quality Management District (AQMD) - VOC Regulatory:**

V.O.C.(weight-percent): 86 % weight  
V.O.C. at 77 °F: 873.05 kg/m<sup>3</sup> (873.05 g/L)

**Ozone Transport Commission (OTC) Rules - VOC Regulatory:**

V.O.C.(weight-percent): 86 % weight  
V.O.C. at 77 °F: 873.05 kg/m<sup>3</sup> (873.05 g/L)

**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 68 °F: Liquid  
Appearance: Not available  
Color: Not available  
Odor: Not available  
Odour threshold: Not applicable (N/A) \*

\*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)

**Volatility:**

|  |                         |
|--|-------------------------|
| Boiling point at atmospheric pressure: | 231 °F                  |
| Vapour pressure at 77 °F:              | 8117 Pa                 |
| Vapour pressure at 122 °F:             | 23192.37 Pa (23.19 kPa) |
| Evaporation rate at 77 °F:             | Not applicable (N/A) *  |

**Product description:**

|  |                          |
|--|--------------------------|
| Density at 77 °F:                            | 865.5 kg/m <sup>3</sup>  |
| Relative density at 77 °F:                   | 0.865                    |
| Dynamic viscosity at 77 °F:                  | 0.51 cP                  |
| Kinematic viscosity at 77 °F:                | 0.59 mm <sup>2</sup> /s  |
| Kinematic viscosity at 104 °F:               | <20.5 mm <sup>2</sup> /s |
| Concentration:                               | Not applicable (N/A) *   |
| pH:  | Not applicable (N/A) *   |
| Vapour density at 77 °F:                     | Not applicable (N/A) *   |
| Partition coefficient n-octanol/water 77 °F: | Not applicable (N/A) *   |
| Solubility in water at 77 °F:                | Not applicable (N/A) *   |
| Solubility properties:                       | Not applicable (N/A) *   |
| Decomposition temperature:                   | Not applicable (N/A) *   |
| Melting point/freezing point:                | Not applicable (N/A) *   |

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | 61 °F                  |
| Flammability (solid, gas): | Not applicable (N/A) * |
| Autoignition temperature:  | 599 °F                 |
| Lower flammability limit:  | Not available          |
| Upper flammability limit:  | Not available          |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

**9.2 Other information:**

**Information with regard to physical hazard classes:**

|  |                        |
|--|------------------------|
| Explosive properties:  | Not applicable (N/A) * |
| Oxidising properties:  | Not applicable (N/A) * |
| Corrosive to metals:   | Not applicable (N/A) * |
| Heat of combustion:  | Not applicable (N/A) * |
| Aerosols-total percentage (by mass) of flammable components: | Not applicable (N/A) * |

**Other safety characteristics:**

|                           |                        |
|---------------------------|------------------------|
| Surface tension at 77 °F: | Not applicable (N/A) * |
| Refraction index:         | Not applicable (N/A) * |

\*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 indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

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**SECTION 10: STABILITY AND REACTIVITY (continued)**

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          | Oxidising 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**

**11.1 Information on toxicological effects:**

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

**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 hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Reaction mass of ethylbenzene and m-xylene and p-xylene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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 hazardous 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 hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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

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

- Specific target organ toxicity (STOT)-repeated 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.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

**Other information:**

Not applicable (N/A)

**Specific toxicology information on the substances:**

| Identification   | Acute toxicity  |                 | Genus       |
|--|-----------------|-----------------|-------------|
|  | Route           | Dose            |             |
| acetone<br>CAS: 67-64-1  | LD50 oral       | 5800 mg/kg      | Rat         |
|  | LD50 dermal     | 7426 mg/kg      | Rabbit      |
|  | LC50 inhalation | 76 mg/L (4 h)   | Rat         |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6                               | LD50 oral       | 8532 mg/kg      | Rat         |
|  | LD50 dermal     | >5000 mg/kg     | Rat         |
|  | LC50 inhalation | 30 mg/L (4 h)   | Rat         |
| methanol<br>CAS: 67-56-1   | LD50 oral       | 100 mg/kg       |             |
|  | LD50 dermal     | 300 mg/kg       |             |
|  | LC50 inhalation | 3 mg/L (4 h)    | Rat         |
| methyl acetate<br>CAS: 79-20-9   | LD50 oral       | 6482 mg/kg      | Rat         |
|  | LD50 dermal     | 18684 mg/kg     | Guinean pig |
|  | LC50 inhalation | 75 mg/L (4 h)   | Rabbit      |
| N-butyl acetate<br>CAS: 123-86-4   | LD50 oral       | 12789 mg/kg     | Rat         |
|  | LD50 dermal     | 14112 mg/kg     | Rabbit      |
|  | LC50 inhalation | 23.4 mg/L (4 h) | Rat         |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | LD50 oral       | 2100 mg/kg      | Rat         |
|  | LD50 dermal     | 1100 mg/kg      | Rat         |
|  | LC50 inhalation | 11 mg/L (ATEI)  |             |

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Ecotoxicity (aquatic and terrestrial, where available):**

**Acute toxicity:**

| Identification                                   | Concentration |                      | Species                 | Genus      |
|--|---------------|----------------------|-------------------------|------------|
|  | Route         | Dose                 |                         |            |
| N-butyl acetate<br>CAS: 123-86-4                 | LC50          | Not applicable (N/A) |                         |            |
|  | EC50          | Not applicable (N/A) |                         |            |
|  | EC50          | 675 mg/L (72 h)      | Scenedesmus subspicatus | Algae      |
| acetone<br>CAS: 67-64-1                          | LC50          | 5540 mg/L (96 h)     | Oncorhynchus mykiss     | Fish       |
|  | EC50          | 8800 mg/L (48 h)     | Daphnia pulex           | Crustacean |
|  | EC50          | 3400 mg/L (48 h)     | Chlorella pyrenoidosa   | Algae      |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6 | LC50          | 161 mg/L (96 h)      | Pimephales promelas     | Fish       |
|  | EC50          | 481 mg/L (48 h)      | Daphnia sp.             | Crustacean |
|  | EC50          | Not applicable (N/A) |                         |            |
| methyl acetate<br>CAS: 79-20-9                   | LC50          | 320 mg/L (96 h)      | Pimephales promelas     | Fish       |
|  | EC50          | 1026.7 mg/L (48 h)   | Daphnia magna           | Crustacean |
|  | EC50          | 120 mg/L (72 h)      | Scenedesmus subspicatus | Algae      |
| methanol<br>CAS: 67-56-1                         | LC50          | 15400 mg/L (96 h)    | Lepomis macrochirus     | Fish       |
|  | EC50          | 12000 mg/L (96 h)    | Nitocra spinipes        | Crustacean |
|  | EC50          | 530 mg/L (168 h)     | Microcystis aeruginosa  | Algae      |

**Chronic toxicity:**

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification   | Concentration |                      | Species             | Genus      |
|--|---------------|----------------------|---------------------|------------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | NOEC          | 1.3 mg/L             | Oncorhynchus mykiss | Fish       |
|  | NOEC          | 1.17 mg/L            | Ceriodaphnia dubia  | Crustacean |
| N-butyl acetate<br>CAS: 123-86-4   | NOEC          | Not applicable (N/A) |                     |            |
|  | NOEC          | 23.2 mg/L            | Daphnia magna       | Crustacean |
| acetone<br>CAS: 67-64-1  | NOEC          | Not applicable (N/A) |                     |            |
|  | NOEC          | 2212 mg/L            | Daphnia magna       | Crustacean |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6                               | NOEC          | 47.5 mg/L            | Oryzias latipes     | Fish       |
|  | NOEC          | 100 mg/L             | Daphnia magna       | Crustacean |
| methanol<br>CAS: 67-56-1   | NOEC          | 15800 mg/L           | Oryzias latipes     | Fish       |
|  | NOEC          | 122 mg/L             | Daphnia magna       | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification   | Degradability |                      | Biodegradability |                      |
|--|---------------|----------------------|------------------|----------------------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | BOD5          | Not applicable (N/A) | Concentration    | Not applicable (N/A) |
|  | COD           | Not applicable (N/A) | Period           | 28 days              |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 88 %                 |
| N-butyl acetate<br>CAS: 123-86-4   | BOD5          | Not applicable (N/A) | Concentration    | Not applicable (N/A) |
|  | COD           | Not applicable (N/A) | Period           | 5 days               |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 84 %                 |
| acetone<br>CAS: 67-64-1  | BOD5          | Not applicable (N/A) | Concentration    | 100 mg/L             |
|  | COD           | Not applicable (N/A) | Period           | 28 days              |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 96 %                 |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6                               | BOD5          | Not applicable (N/A) | Concentration    | 785 mg/L             |
|  | COD           | Not applicable (N/A) | Period           | 8 days               |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 100 %                |
| methyl acetate<br>CAS: 79-20-9   | BOD5          | Not applicable (N/A) | Concentration    | 100 mg/L             |
|  | COD           | Not applicable (N/A) | Period           | 14 days              |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 92 %                 |
| methanol<br>CAS: 67-56-1   | BOD5          | Not applicable (N/A) | Concentration    | 100 mg/L             |
|  | COD           | 1.42 g O2/g          | Period           | 14 days              |
|  | BOD5/COD      | Not applicable (N/A) | % Biodegradable  | 92 %                 |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification   | Bioaccumulation potential |      |
|--|---------------------------|------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | BCF                       | 9    |
|  | Pow Log                   | 2.77 |
|  | Potential                 | Low  |
| N-butyl acetate<br>CAS: 123-86-4   | BCF                       | 4    |
|  | Pow Log                   | 1.78 |
|  | Potential                 | Low  |

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification                                   | Bioaccumulation potential |       |
|--|---------------------------|-------|
| acetone<br>CAS: 67-64-1                          | BCF                       | 1     |
|  | Pow Log                   | -0.24 |
|  | Potential                 | Low   |
| 2-methoxy-1-methylethyl acetate<br>CAS: 108-65-6 | BCF                       | 1     |
|  | Pow Log                   | 0.43  |
|  | Potential                 | Low   |
| methyl acetate<br>CAS: 79-20-9                   | BCF                       | 0.8   |
|  | Pow Log                   | 0.18  |
|  | Potential                 | Low   |
| methanol<br>CAS: 67-56-1                         | BCF                       | 3     |
|  | Pow Log                   | -0.77 |
|  | Potential                 | Low   |

12.4 Mobility in soil:

| Identification   | Absorption/desorption |                      | Volatility |                               |
|--|-----------------------|----------------------|------------|-------------------------------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | Koc                   | 202                  | Henry      | 524.86 Pa·m <sup>3</sup> /mol |
|  | Conclusion            | Moderate             | Dry soil   | Yes                           |
|  | Surface tension       | Not applicable (N/A) | Moist soil | Yes                           |
| N-butyl acetate<br>CAS: 123-86-4   | Koc                   | Not applicable (N/A) | Henry      | Not applicable (N/A)          |
|  | Conclusion            | Not applicable (N/A) | Dry soil   | Not applicable (N/A)          |
|  | Surface tension       | 2.478E-2 N/m (77 °F) | Moist soil | Not applicable (N/A)          |
| acetone<br>CAS: 67-64-1  | Koc                   | 1                    | Henry      | 2.93 Pa·m <sup>3</sup> /mol   |
|  | Conclusion            | Very High            | Dry soil   | Yes                           |
|  | Surface tension       | 2.304E-2 N/m (77 °F) | Moist soil | Yes                           |
| methyl acetate<br>CAS: 79-20-9   | Koc                   | Not applicable (N/A) | Henry      | Not applicable (N/A)          |
|  | Conclusion            | Not applicable (N/A) | Dry soil   | Not applicable (N/A)          |
|  | Surface tension       | 2.454E-2 N/m (77 °F) | Moist soil | Not applicable (N/A)          |
| methanol<br>CAS: 67-56-1   | Koc                   | Not applicable (N/A) | Henry      | Not applicable (N/A)          |
|  | Conclusion            | Not applicable (N/A) | Dry soil   | Not applicable (N/A)          |
|  | Surface tension       | 2.355E-2 N/m (77 °F) | Moist soil | Not applicable (N/A)          |

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

The characteristic of Ignitability per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D001 could apply.

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

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

**Regulations related to waste management:**

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

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SECTION 14: TRANSPORT INFORMATION (continued)

With regard to 49 CFR on the Transport of Dangerous Goods:



- 14.1 **UN number:** UN1993
- 14.2 **UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Reaction mass of ethylbenzene and m-xylene and p-xylene )
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group, if applicable:** II
- 14.5 **Marine pollutant:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:



- 14.1 **UN number:** UN1993
- 14.2 **UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Reaction mass of ethylbenzene and m-xylene and p-xylene )
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group, if applicable:** II
- 14.5 **Marine pollutant:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Special regulations: 274  
EmS Codes: F-E, S-E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: Not applicable (N/A)
- 14.7 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:



- 14.1 **UN number:** UN1993
- 14.2 **UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Reaction mass of ethylbenzene and m-xylene and p-xylene )
- 14.3 **Transport hazard class(es):** 3  
Labels: 3
- 14.4 **Packing group, if applicable:** II
- 14.5 **Marine pollutant:** No
- 14.6 **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Physico-Chemical properties: see section 9
- 14.7 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

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## SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: *methanol (67-56-1)*
  - California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not applicable (N/A)
  - CANADA-Domestic Substances List (DSL): *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *2-methoxy-1-methylethyl acetate (108-65-6)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
  - Hazardous Air Pollutants (Clean Air Act): *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *methanol (67-56-1)*
  - Massachusetts RTK - Substance List: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - Minnesota - Hazardous substances ERTK: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - New Jersey Worker and Community Right-to-Know Act: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - New York RTK - Substance list: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - NTP (National Toxicology Program): Not applicable (N/A)
  - OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
  - Pennsylvania Worker and Community Right-to-Know Law: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - Rhode Island - Hazardous substances RTK: *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *methanol (67-56-1)*
  - The Toxic Substances Control Act (TSCA) : *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *N-butyl acetate (123-86-4)*; *acetone (67-64-1)*; *2-methoxy-1-methylethyl acetate (108-65-6)*; *methyl acetate (79-20-9)*; *methanol (67-56-1)*
  - Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *Reaction mass of ethylbenzene and m-xylene and p-xylene (Non-applicable)*; *methanol (67-56-1)*
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Reaction mass of ethylbenzene and m-xylene and p-xylene (100 pounds); N-butyl acetate (5000 pounds); acetone (5000 pounds); methanol (5000 pounds)

**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:**

Take into consideration other applicable federal, state, and local laws and local regulations.

## SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

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

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H373: May cause damage to organs through prolonged or repeated exposure (Oral).

H304: May be fatal if swallowed and enters airways.

H225: Highly flammable liquid and vapour.

**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:**

Occupational Safety & Health Administration (OSHA).

**Abbreviations and acronyms:**

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## SECTION 16: OTHER INFORMATION (continued)

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

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET