

## SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** EX014PR0950 - MTN PRO Luminous Paint
- Other means of identification:**  
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Spray paint  
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:**  
MONTANA COLORS, S.L.  
Pol. Ind. Pla de les Vives C/ Anaïs Nin 6  
08295 Sant Vicenç de Castellet - Barcelona - España  
Phone.: +34 938332760 (9:00- 16:00h GMT +1:00)  
msds@montanacolors.com  
<https://www.montanacolors.com>
- 1.4 Emergency phone number:** Call CHEMTREC Day or Night. Within USA and Canada: 1-800-424-9300.

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1 Classification of the substance or mixture:

#### NFPA:

Health Hazards: 1  
Flammability Hazards: 4  
Instability Hazards: 0  
Special Hazards: Non-applicable

#### 29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Aerosol 1: Flammable aerosols, Category 1, H222  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Skin Irrit. 2: Skin irritation, Category 2, H315

### 2.2 Label elements:

#### NFPA:



#### 29 CFR 1910.1200:

#### Danger



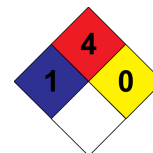
#### Hazard statements:

Aerosol 1: H222 - Extremely flammable aerosol.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Skin Irrit. 2: H315 - Causes skin irritation.

#### Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P271: Use only outdoors or in a well-ventilated area.  
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.

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**SECTION 2: HAZARD(S) IDENTIFICATION (continued)**

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

Non-applicable

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

**3.1 Substances:**










Non-applicable

**3.2 Mixtures:**

**Chemical description:** Aerosol

**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/Classification   | Concentration   |
|---------------------|--|---|
| CAS: 115-10-6       | <b>dimethyl ether</b><br>Flam. Gas 1A: H220; Press. Gas: H280 - Danger   |  50 - <75 %  |
| CAS: 12004-37-4     | <b>Dialuminium strontium tetraoxide</b><br>Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning  |  10 - <25 %  |
| CAS: 141-78-6       | <b>Ethyl acetate</b><br>Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger   |   10 - <25 %  |
| CAS: 123-86-4       | <b>N-butyl acetate</b><br>Flam. Liq. 3: H226; STOT SE 3: H336 - Warning  |   2,5 - <10 %   |
| CAS: Non-applicable | <b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b><br>Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger |    2,5 - <10 % |

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:**

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**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.

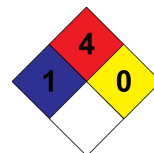
**4.2 Most important symptoms/effects, acute and delayed:**

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

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

Non-applicable

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## 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:

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:

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:

It is recommended:

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

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- Precautions for safe manipulation

Comply with the current 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.

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

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

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

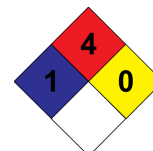
Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

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

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:

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

**A.- Technical measures for storage**

- Minimum Temp.: 41 °F
- Maximum Temp.: 86 °F
- Maximum time: 120 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 workplace:

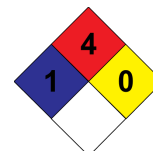
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

| Identification   | Occupational exposure limits |          |                        |
|--|------------------------------|----------|------------------------|
|  | 8-hour TWA PEL               | 100 ppm  | 300 mg/m <sup>3</sup>  |
| 2-methylpropan-1-ol<br>CAS: 78-83-1  | Ceiling Values - TWA PEL     |          |                        |
| Ethylbenzene<br>CAS: 100-41-4  | 8-hour TWA PEL               | 100 ppm  | 435 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |
| Xylene<br>CAS: 1330-20-7   | 8-hour TWA PEL               | 100 ppm  | 435 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     |          |                        |
| propan-2-ol<br>CAS: 67-63-0  | 8-hour TWA PEL               | 400 ppm  | 980 mg/m <sup>3</sup>  |
|  | Ceiling Values - TWA PEL     |          |                        |
| ethanol<br>CAS: 64-17-5  | 8-hour TWA PEL               | 1000 ppm | 1900 mg/m <sup>3</sup> |
|  | Ceiling Values - TWA PEL     |          |                        |
| Ethyl acetate<br>CAS: 141-78-6   | 8-hour TWA PEL               | 400 ppm  | 1400 mg/m <sup>3</sup> |
|  | Ceiling Values - TWA PEL     |          |                        |
| acetone<br>CAS: 67-64-1  | 8-hour TWA PEL               | 1000 ppm | 2400 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 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:

| Identification   | Occupational exposure limits |         |                     |
|--|------------------------------|---------|---------------------|
|  | TLV-TWA                      | 50 ppm  |                     |
| 2-methylpropan-1-ol<br>CAS: 78-83-1  | TLV-STEL                     |         |                     |
| Ethylbenzene<br>CAS: 100-41-4  | TLV-TWA                      | 20 ppm  |                     |
|  | TLV-STEL                     |         |                     |
| Xylene<br>CAS: 1330-20-7   | TLV-TWA                      | 100 ppm |                     |
|  | TLV-STEL                     | 150 ppm |                     |
| Dialuminium strontium tetraoxide<br>CAS: 12004-37-4                            | TLV-TWA                      |         | 1 mg/m <sup>3</sup> |
|  | TLV-STEL                     |         |                     |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | TLV-TWA                      | 100 ppm |                     |
|  | TLV-STEL                     | 150 ppm |                     |
| propan-2-ol<br>CAS: 67-63-0  | TLV-TWA                      | 200 ppm |                     |
|  | TLV-STEL                     | 400 ppm |                     |

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

**US. ACGIH Threshold Limit Values:**

| Identification  | Occupational exposure limits |          |                         |
|---|------------------------------|----------|-------------------------|
|   | TLV-TWA                      | TLV-STEL |                         |
| ethanol<br>CAS: 64-17-5   | TLV-TWA                      |          |                         |
|   | TLV-STEL                     | 1000 ppm |                         |
| Ethyl acetate<br>CAS: 141-78-6                                  | TLV-TWA                      | 150 ppm  |                         |
|   | TLV-STEL                     |          |                         |
| acetone<br>CAS: 67-64-1   | TLV-TWA                      | 250 ppm  |                         |
|   | TLV-STEL                     | 500 ppm  |                         |
| N-butyl acetate<br>CAS: 123-86-4                                | TLV-TWA                      | 20 ppm   |                         |
|   | TLV-STEL                     |          |                         |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | TLV-TWA                      | 100 ppm  |                         |
|   | TLV-STEL                     | 150 ppm  |                         |
| Quartz (RCS < 1 %)<br>CAS: 14808-60-7                           | TLV-TWA                      |          | 0.025 mg/m <sup>3</sup> |
|   | TLV-STEL                     |          |                         |
| dimethyl ether<br>CAS: 115-10-6                                 | TLV-TWA                      | 1000 ppm |                         |
|   | TLV-STEL                     |          |                         |

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


| Identification   | Occupational exposure limits |          |                        |
|--|------------------------------|----------|------------------------|
|  | PEL                          | STEL     |                        |
| 2-methylpropan-1-ol<br>CAS: 78-83-1  | PEL                          | 50 ppm   | 150 mg/m <sup>3</sup>  |
|  | STEL                         |          |                        |
| Ethylbenzene<br>CAS: 100-41-4  | PEL                          | 5 ppm    | 22 mg/m <sup>3</sup>   |
|  | STEL                         | 30 ppm   | 130 mg/m <sup>3</sup>  |
| Xylene<br>CAS: 1330-20-7   | PEL                          | 100 ppm  | 435 mg/m <sup>3</sup>  |
|  | STEL                         | 150 ppm  | 655 mg/m <sup>3</sup>  |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | PEL                          | 100 ppm  | 435 mg/m <sup>3</sup>  |
|  | STEL                         | 150 ppm  | 655 mg/m <sup>3</sup>  |
| propan-2-ol<br>CAS: 67-63-0  | PEL                          | 400 ppm  | 980 mg/m <sup>3</sup>  |
|  | STEL                         | 500 ppm  | 1225 mg/m <sup>3</sup> |
| ethanol<br>CAS: 64-17-5  | PEL                          | 1000 ppm | 1900 mg/m <sup>3</sup> |
|  | STEL                         |          |                        |
| Ethyl acetate<br>CAS: 141-78-6   | PEL                          | 400 ppm  | 1400 mg/m <sup>3</sup> |
|  | STEL                         |          |                        |
| acetone<br>CAS: 67-64-1  | PEL                          | 500 ppm  | 1200 mg/m <sup>3</sup> |
|  | STEL                         | 750 ppm  | 1780 mg/m <sup>3</sup> |
| N-butyl acetate<br>CAS: 123-86-4   | PEL                          | 150 ppm  | 710 mg/m <sup>3</sup>  |
|  | STEL                         | 200 ppm  | 950 mg/m <sup>3</sup>  |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable                | PEL                          | 100 ppm  | 435 mg/m <sup>3</sup>  |
|  | STEL                         | 150 ppm  | 655 mg/m <sup>3</sup>  |
| Quartz (RCS < 1 %)<br>CAS: 14808-60-7  | PEL                          |          | 0.05 mg/m <sup>3</sup> |
|  | STEL                         |          |                        |

**8.2 Appropriate engineering controls:**

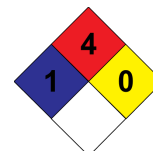
**A.- Individual protection measures, such as personal protective equipment**

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>Compulsory use of face mask | Filter mask for particles | Replace when an increase in resistance to breathing is observed. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR). |

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

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



| Pictogram  | PPE                                   | Remarks   |
|--|---------------------------------------|---|
| <br>Mandatory hand protection | Protective gloves against minor risks | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. 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.- Ocular and facial protection**

| 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

**National volatile organic compound emission standards (40 CFR Part 59):**

|                                |                                       |
|--------------------------------|---------------------------------------|
| V.O.C. (Subpart C - Consumer): | 81.29 % weight                        |
| V.O.C. (Coatings) at 68 °F:    | 657.66 kg/m <sup>3</sup> (657.66 g/L) |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

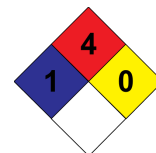
For complete information see the product datasheet.

**Appearance:**

|                          |                  |
|--------------------------|------------------|
| Physical state at 68 °F: | Aerosol          |
| Appearance:              | Not available    |
| Color:                   | Characteristic   |
| Odor:                    | Not available    |
| Odour threshold:         | Non-applicable * |

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

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

**Volatility:**

|  |                      |
|--|----------------------|
| Boiling point at atmospheric pressure: | -13 °F (Propellant)  |
| Vapour pressure at 68 °F:              | Non-applicable *     |
| Vapour pressure at 122 °F:             | <300000 Pa (300 kPa) |
| Evaporation rate at 68 °F:             | Non-applicable *     |

**Product description:**

|  |                       |
|--|-----------------------|
| Density at 68 °F:                            | 809 kg/m <sup>3</sup> |
| Relative density at 68 °F:                   | Non-applicable *      |
| Dynamic viscosity at 68 °F:                  | Non-applicable *      |
| Kinematic viscosity at 68 °F:                | Non-applicable *      |
| Kinematic viscosity at 104 °F:               | Non-applicable *      |
| Concentration:                               | Non-applicable *      |
| pH:  | Non-applicable *      |
| Vapour density at 68 °F:                     | Non-applicable *      |
| Partition coefficient n-octanol/water 68 °F: | Non-applicable *      |
| Solubility in water at 68 °F:                |                       |
| 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 *      |

**Flammability:**

|                            |                     |
|----------------------------|---------------------|
| Flash Point:               | -42 °F (Propellant) |
| Heat of combustion:        | Non-applicable *    |
| Flammability (solid, gas): | Non-applicable *    |
| Autoignition temperature:  | 464 °F (Propellant) |
| Lower flammability limit:  | Non-applicable *    |
| Upper flammability limit:  | Non-applicable *    |

**Explosive:**

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 68 °F: | 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.

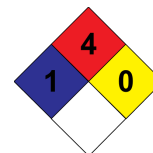
**10.2 Chemical stability:**

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.

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## SECTION 10: STABILITY AND REACTIVITY (continued)

### 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

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, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

#### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, 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, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.  
IARC: Ethylbenzene (2B); Xylene (3); Reaction mass of ethylbenzene and m-xylene and p-xylene (3); propan-2-ol (3); ethanol (1); Reaction mass of ethylbenzene and xylene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### E- Sensitizing effects:

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

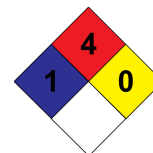
#### F- Specific target organ toxicity (STOT) - single exposure:

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.

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

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

- 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: 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.

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         |
|--|----------------------|----------------------|---------------|
|  | LD50 oral            | LD50 dermal          |               |
| Dialuminium strontium tetraoxide<br>CAS: 12004-37-4                            | >5000 mg/kg          | >5000 mg/kg          |               |
|  | >5000 mg/kg          | >5000 mg/kg          |               |
|  | >5 mg/L (4 h)        |                      |               |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 5627 mg/kg           | 1100 mg/kg           | Mouse<br>Rat  |
|  | 1100 mg/kg           | 11 mg/L (4 h) (ATEi) |               |
|  | 11 mg/L (4 h) (ATEi) |                      |               |
| Ethyl acetate<br>CAS: 141-78-6   | 4100 mg/kg           | 20000 mg/kg          | Rat<br>Rabbit |
|  | 20000 mg/kg          | >20 mg/L (4 h)       |               |
|  | >20 mg/L (4 h)       |                      |               |
| N-butyl acetate<br>CAS: 123-86-4   | 12789 mg/kg          | 14112 mg/kg          | Rat<br>Rabbit |
|  | 14112 mg/kg          | 23.4 mg/L (4 h)      | Rat           |
|  | 23.4 mg/L (4 h)      |                      |               |
| dimethyl ether<br>CAS: 115-10-6  | >5000 mg/kg          | >5000 mg/kg          |               |
|  | >5000 mg/kg          | >5000 mg/kg          |               |
|  | >5000 mg/kg          | 308.5 mg/L (4 h)     | Rat           |

**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):**

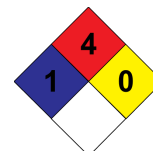
| Identification   | Acute toxicity   |                  | Species                 | Genus      |
|--|------------------|------------------|-------------------------|------------|
|  | LC50             | EC50             |                         |            |
| Ethyl acetate<br>CAS: 141-78-6   | 230 mg/L (96 h)  | 717 mg/L (48 h)  | Pimephales promelas     | Fish       |
|  | 717 mg/L (48 h)  | 3300 mg/L (48 h) | Daphnia magna           | Crustacean |
|  | 3300 mg/L (48 h) |                  | Scenedesmus subspicatus | Algae      |
| N-butyl acetate<br>CAS: 123-86-4   | 62 mg/L (96 h)   | 73 mg/L (24 h)   | Leuciscus idus          | Fish       |
|  | 73 mg/L (24 h)   | 675 mg/L (72 h)  | Daphnia magna           | Crustacean |
|  | 675 mg/L (72 h)  |                  | Scenedesmus subspicatus | Algae      |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 13.5 mg/L (96 h) | 0.6 mg/L (96 h)  | Oncorhynchus mykiss     | Fish       |
|  | 0.6 mg/L (96 h)  | 10 mg/L (72 h)   | Gammarus lacustris      | Crustacean |
|  | 10 mg/L (72 h)   |                  | Skeletonema costatum    | Algae      |

**12.2 Persistence and degradability:**

| Identification                   | Degradability  |                | Biodegradability |         |
|----------------------------------|----------------|----------------|------------------|---------|
|                                  | BOD5           | COD            | Concentration    | Period  |
| Ethyl acetate<br>CAS: 141-78-6   | 1.36 g O2/g    | 1.69 g O2/g    | 100 mg/L         | 14 days |
|                                  | 1.69 g O2/g    | 0.8            | 83 %             |         |
|                                  | 0.8            |                |                  |         |
| N-butyl acetate<br>CAS: 123-86-4 | Non-applicable | Non-applicable | Non-applicable   | 5 days  |
|                                  | Non-applicable | Non-applicable | 84 %             |         |
|                                  | Non-applicable |                |                  |         |

**12.3 Bioaccumulative potential:**

- CONTINUED ON NEXT PAGE -



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

| Identification   | Bioaccumulation potential |          |
|--|---------------------------|----------|
|  | BCF                       | Pow Log  |
| Ethyl acetate<br>CAS: 141-78-6   | 30                        | 0.73     |
|  | Potential                 | Moderate |
|  | BCF                       | 4        |
| N-butyl acetate<br>CAS: 123-86-4   | 4                         | 1.78     |
|  | Pow Log                   | Low      |
|  | Potential                 | Low      |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable | 9                         | 2.77     |
|  | Pow Log                   | Low      |
|  | Potential                 | Low      |

**12.4 Mobility in soil:**

| Identification                   | Absorption/desorption |                      | Volatility     |                |
|----------------------------------|-----------------------|----------------------|----------------|----------------|
|                                  | Koc                   | Conclusion           | Henry          | Non-applicable |
| dimethyl ether<br>CAS: 115-10-6  | Non-applicable        | Dry soil             | Non-applicable | Non-applicable |
|                                  | Conclusion            | Dry soil             | Non-applicable | Non-applicable |
|                                  | Surface tension       | 1.136E-2 N/m (77 °F) | Moist soil     | Non-applicable |
| Ethyl acetate<br>CAS: 141-78-6   | 59                    | Very High            | Dry soil       | Yes            |
|                                  | Conclusion            | Very High            | Dry soil       | Yes            |
|                                  | Surface tension       | 2.324E-2 N/m (77 °F) | Moist soil     | Yes            |
| N-butyl acetate<br>CAS: 123-86-4 | Non-applicable        | Non-applicable       | Dry soil       | Non-applicable |
|                                  | Conclusion            | Non-applicable       | Dry soil       | Non-applicable |
|                                  | Surface tension       | 2.478E-2 N/m (77 °F) | Moist soil     | Non-applicable |

**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:**

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

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

**Regulations related to waste management:**

Legislation related to waste management:

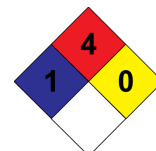
40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

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

- CONTINUED ON NEXT PAGE -



**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, if applicable:** N/A
- 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):** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 39-18:



- 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, if applicable:** N/A
- 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: 63, 959, 190, 277, 327, 344  
EmS Codes: F-D, S-U  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: Non-applicable
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2020:



- 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, if applicable:** N/A
- 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):** Non-applicable

**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)

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Non-applicable  
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable  
The Toxic Substances Control Act (TSCA) : dimethyl ether ; Dialuminium strontium tetraoxide ; Ethyl acetate ; N-butyl acetate  
Massachusetts RTK - Substance List: dimethyl ether ; Ethyl acetate ; N-butyl acetate ; Reaction mass of ethylbenzene and m-xylene and p-xylene  
New Jersey Worker and Community Right-to-Know Act: dimethyl ether ; Ethyl acetate ; N-butyl acetate ; Reaction mass of ethylbenzene and m-xylene and p-xylene  
New York RTK - Substance list: dimethyl ether ; Ethyl acetate ; N-butyl acetate ; Reaction mass of ethylbenzene and m-xylene and p-xylene  
Pennsylvania Worker and Community Right-to-Know Law: dimethyl ether ; Ethyl acetate ; N-butyl acetate  
CANADA-Domestic Substances List (DSL): dimethyl ether ; Ethyl acetate ; N-butyl acetate  
CANADA-Non-Domestic Substances List (NDSL): Dialuminium strontium tetraoxide  
NTP (National Toxicology Program): Non-applicable  
Minnesota - Hazardous substances ERTK: dimethyl ether ; Ethyl acetate ; N-butyl acetate ; Reaction mass of ethylbenzene and m-xylene and p-xylene  
Rhode Island - Hazardous substances RTK: dimethyl ether ; Ethyl acetate ; N-butyl acetate ; Reaction mass of ethylbenzene and m-xylene and p-xylene  
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable  
Hazardous Air Pollutants (Clean Air Act): Non-applicable  
Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): Ethyl acetate (5000 pounds) ; N-butyl acetate (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:

H315: Causes skin irritation.  
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

### 29 CFR 1910.1200:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Gas 1A: H220 - Extremely flammable gas.  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Press. Gas: H280 - Contains gas under pressure, may explode if heated.  
Skin Irrit. 2: H315 - Causes skin irritation.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3: H335 - May cause respiratory irritation.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

### Advice related to training:

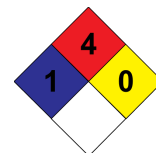
Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### 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

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END OF SAFETY DATA SHEET