

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Carsystem Power Mix Primer  
Product code : 144.502

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Base coating  
Recommended restrictions on use : Industrial use, professional use

#### 1.3 Details of the supplier of the safety data sheet

Company : JASA AG  
Müslistrasse 43  
8957 Spreitenbach  
Schweiz  
info@jasa-ag.ch, www.jasa-ag.ch  
Telephone : +41 (0)44 431 60 70  
Telefax : +41 (0)44 432 63 17  
Responsible Department : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

#### 1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

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### SECTION 2: Hazards identification



#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |   |
|--|---|
| Aerosols, Category 1   | H222: Extremely flammable aerosol.<br>H229: Pressurised container: May burst if heated. |
| Eye irritation, Category 2   | H319: Causes serious eye irritation.  |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.  |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

|                                |   |   |
|--------------------------------|---|---|
| Hazard pictograms              | : |     |
| Signal Word                    | : | Danger  |
| Hazard Statements              | : | H222 Extremely flammable aerosol.<br>H229 Pressurised container: May burst if heated.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.   |
| Supplemental Hazard Statements | : | EUH066 Repeated exposure may cause skin dryness or cracking.  |
| Precautionary Statements       | : | <b>Prevention:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P261 Avoid breathing vapors or spray.<br>P280 Wear eye protection/ face protection.<br><b>Storage:</b><br>P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. |

##### Hazardous ingredients which must be listed on the label:

ethyl acetate  
n-butyl acetate

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

Version 1.2 DE / EN Revision Date: 29.04.2024 Date of last issue: 20.09.2023  
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### Additional Labeling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : aerosol  
Mixture

#### Components

| Chemical name                            | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number                                   | Classification   | Concentration<br>(% w/w) |
|--|---|--|--------------------------|
| ethyl acetate                            | 141-78-6<br>205-500-4<br>607-022-00-5<br>01-2119475103-46                               | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066  | >= 25 - < 50             |
| n-butyl acetate                          | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29                               | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066  | >= 5 - < 10              |
| Reaction mass of ethylbenzene and xylene | Not Assigned<br>905-588-0<br>01-2119486136-34,<br>01-2119488216-32,<br>01-2119539452-40 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 5 - < 10              |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

Version 1.2 DE / EN Revision Date: 29.04.2024 Date of last issue: 20.09.2023  
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|  |  |   |  |
|--|--|---|--|
|  |  | specific concentration<br>limit<br>STOT RE 2<br>>= 10 % |  |
|--|--|---|--|

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : First aider needs to protect himself.  
Remove from exposure, lie down.  
If unconscious, place in recovery position and seek medical advice.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
If eye irritation persists, consult a specialist.
- If swallowed : Swallowing is not regarded as a possible method for exposure.  
Clean mouth with water and drink afterwards plenty of water.  
Get medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Vapors may form explosive mixtures with air.  
Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Use personal protective equipment. Wear suitable respiratory protection equipment.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use water spray to cool unopened containers.  
In the event of fire and/or explosion do not breathe fumes.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.  
Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Avoid inhalation of vapor or mist.  
Avoid contact with skin, eyes and clothing.

### 6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate the area.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Contact with incompatible substances can cause decomposition at or below SADT.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Local/Total ventilation : Ensure adequate ventilation.  
Use only with adequate ventilation.
- Advice on safe handling : Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F. Also after use, do not open with force or burn.  
Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.  
Take measures to prevent the build up of electrostatic charge.  
Vapors may form explosive mixture with air.
- Hygiene measures : Do not inhale aerosol.  
Take off all contaminated clothing immediately. Wash contaminated clothing before re-use. When using do not eat, drink or smoke. Follow the skin protection plan. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking.

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

- Requirements for storage areas and containers : Please observe the storage instructions for aerosols! Keep containers tightly closed in a cool, well-ventilated place. Solvent vapors are heavier than air and may spread along floors. Keep away from direct sunlight. Keep away from heat and sources of ignition.
- Further information on storage conditions : Storage must be in accordance with the BetrSichV (Germany).
- Advice on common storage : Keep away from food and drink.  
Incompatible with oxidizing agents.
- Storage class (TRGS 510) : 2B

### 7.3 Specific end use(s)

- Specific use(s) : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

Version  
1.2

DE / EN

Revision Date:  
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components  | CAS-No.  | Value type (Form of exposure)  | Control parameters                   | Basis        |
|---|----------|--|--------------------------------------|--------------|
| ethyl acetate                                     | 141-78-6 | STEL   | 400 ppm<br>1.468 mg/m <sup>3</sup>   | 2017/164/EU  |
|   |          | Further information: Indicative  |                                      |              |
|   |          | TWA  | 200 ppm<br>734 mg/m <sup>3</sup>     | 2017/164/EU  |
|   |          | Further information: Indicative  |                                      |              |
|   |          | AGW  | 200 ppm<br>730 mg/m <sup>3</sup>     | DE TRGS 900  |
|   |          | Peak-limit category: 2;(I)   |                                      |              |
|   |          | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child   |                                      |              |
|   |          | MAK  | 200 ppm<br>750 mg/m <sup>3</sup>     | DE DFG MAK   |
|   |          | Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed  |                                      |              |
| propane   | 74-98-6  | AGW  | 1.000 ppm<br>1.800 mg/m <sup>3</sup> | DE TRGS 900  |
|   |          | Peak-limit category: 4;(II)  |                                      |              |
|   |          | MAK  | 1.000 ppm<br>1.800 mg/m <sup>3</sup> | DE DFG MAK   |
|   |          | Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |                                      |              |
| butane (containing < 0,1 % butadiene (203-450-8)) | 106-97-8 | AGW  | 1.000 ppm<br>2.400 mg/m <sup>3</sup> | DE TRGS 900  |
|   |          | Peak-limit category: 4;(II)  |                                      |              |
| isobutane (< 0,1% 1,3-butadiene (203-450-8))      | 75-28-5  | AGW  | 1.000 ppm<br>2.400 mg/m <sup>3</sup> | DE TRGS 900  |
|   |          | Peak-limit category: 4;(II)  |                                      |              |
| n-butyl acetate                                   | 123-86-4 | STEL   | 150 ppm<br>723 mg/m <sup>3</sup>     | 2019/1831/EU |
|   |          | Further information: Indicative  |                                      |              |
|   |          | TWA  | 50 ppm<br>241 mg/m <sup>3</sup>      | 2019/1831/EU |
|   |          | Further information: Indicative  |                                      |              |
|   |          | AGW  | 62 ppm<br>300 mg/m <sup>3</sup>      | DE TRGS 900  |
|   |          | Peak-limit category: 2;(I)   |                                      |              |
|   |          | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child   |                                      |              |
|   |          | MAK  | 100 ppm                              | DE DFG MAK   |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

Version  
1.2

DE / EN

Revision Date:  
29.04.2024

Date of last issue: 20.09.2023  
Date of first issue: 28.07.2022

|   |  |                       |  |
|---|--|-----------------------|--|
|   |  | 480 mg/m <sup>3</sup> |  |
| Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed |  |                       |  |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                           | End Use   | Routes of exposure | Potential health effects                            | Value                  |
|--|-----------|--------------------|---|------------------------|
| ethyl acetate                            | Workers   | Inhalation         | Long-term systemic effects, Long-term local effects | 734 mg/m <sup>3</sup>  |
|  | Workers   | Inhalation         | Acute systemic effects, Acute local effects         | 1468 mg/m <sup>3</sup> |
|  | Workers   | Skin contact       | Long-term systemic effects                          | 63 mg/kg bw/day        |
|  | Consumers | Inhalation         | Long-term systemic effects, Long-term local effects | 367 mg/m <sup>3</sup>  |
|  | Consumers | Inhalation         | Acute systemic effects, Acute local effects         | 734 mg/m <sup>3</sup>  |
|  | Consumers | Skin contact       | Long-term systemic effects                          | 37 mg/kg bw/day        |
|  | Consumers | Ingestion          | Long-term systemic effects                          | 4,5 mg/kg bw/day       |
| n-butyl acetate                          | Workers   | Inhalation         | Long-term systemic effects, Long-term local effects | 300 mg/m <sup>3</sup>  |
|  | Workers   | Inhalation         | Acute systemic effects                              | 600 mg/m <sup>3</sup>  |
|  | Workers   | Dermal             | Long-term systemic effects, Acute systemic effects  | 11 mg/kg bw/day        |
|  | Consumers | Inhalation         | Long-term systemic effects, Long-term local effects | 35,7 mg/m <sup>3</sup> |
|  | Consumers | Inhalation         | Acute systemic effects                              | 300 mg/m <sup>3</sup>  |
|  | Consumers | Dermal             | Long-term systemic effects, Acute systemic effects  | 6 mg/kg bw/day         |
|  | Consumers | Oral               | Long-term systemic effects, Acute systemic effects  | 2 mg/kg bw/day         |
| Reaction mass of ethylbenzene and xylene | Workers   | Inhalation         | Long-term systemic effects                          | 77 mg/m <sup>3</sup>   |
|  | Workers   | Skin contact       | Long-term systemic effects                          | 180 mg/kg bw/day       |
|  | Consumers | Inhalation         | Long-term systemic effects                          | 15 mg/m <sup>3</sup>   |
|  | Consumers | Skin contact       | Long-term systemic                                  | 125 mg/kg              |



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

Version  
1.2

DE / EN

Revision Date:  
29.04.2024

Date of last issue: 20.09.2023  
Date of first issue: 28.07.2022

|  |           |           |                            |                  |
|--|-----------|-----------|----------------------------|------------------|
|  |           |           | effects                    | bw/day           |
|  | Consumers | Ingestion | Long-term systemic effects | 1,6 mg/kg bw/day |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                           | Environmental Compartment    | Value                         |
|--|------------------------------|-------------------------------|
| ethyl acetate                            | Fresh water                  | 0,24 mg/l                     |
|  | Sea water                    | 0,024 mg/l                    |
|  | Fresh water sediment         | 1,15 mg/kg dry weight (d.w.)  |
|  | Sea sediment                 | 0,115 mg/kg dry weight (d.w.) |
|  | Sewage treatment plant (STP) | 650 mg/l                      |
| n-butyl acetate                          | Soil                         | 0,148 mg/kg dry weight (d.w.) |
|  | Oral (Secondary Poisoning)   | 200 mg/kg food                |
|  | Fresh water                  | 0,18 mg/l                     |
|  | Sea water                    | 0,018 mg/l                    |
|  | Fresh water sediment         | 0,981 mg/kg dry weight (d.w.) |
| Reaction mass of ethylbenzene and xylene | Sea sediment                 | 0,098 mg/kg dry weight (d.w.) |
|  | Sewage treatment plant (STP) | 35,6 mg/l                     |
|  | Soil                         | 0,09 mg/kg dry weight (d.w.)  |
|  | Fresh water                  | 0,327 mg/l                    |
|  | Sea water                    | 0,327 mg/l                    |
| Reaction mass of ethylbenzene and xylene | Sewage treatment plant (STP) | 6,58 mg/l                     |
|  | Fresh water sediment         | 12,46 mg/kg dry weight (d.w.) |
|  | Sea sediment                 | 12,46 mg/kg dry weight (d.w.) |
|  | Soil                         | 2,31 mg/kg dry weight (d.w.)  |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles  
Safety glasses with side-shields conforming to EN166

### Hand protection

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : >= 0,4 mm  
Directive : DIN EN 374  
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

- can be obtained from the protective glove producer and this has to be observed. Preventive skin protection
- Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing
- Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
In case of inadequate ventilation wear respiratory protection.
- Filter type : Filter type A-P
- Protective measures : Use only with adequate ventilation.  
When using do not eat, drink or smoke.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapors or spray mist.

### Environmental exposure controls

- Soil : Avoid subsoil penetration.  
Water : Do not flush into surface water or sanitary sewer system.
- 

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : aerosol
- Color : gray
- Odor : characteristic
- Melting point/freezing point : Not applicable
- Initial boiling point and boiling range : Not applicable
- Upper explosion limit / Upper flammability limit : 11,5 %(V)
- Lower explosion limit / Lower flammability limit : 1,5 %(V)
- Flash point : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2     | DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

|  |   |  |
|--|---|--|
| Autoignition temperature               | : | Not applicable   |
| pH                                     | : | not determined substance/mixture is non-soluble (in water) |
| Viscosity                              |   |  |
| Viscosity, dynamic                     | : | Not applicable   |
| Viscosity, kinematic                   | : | Not applicable   |
| Solubility(ies)                        |   |  |
| Water solubility                       | : | Not applicable   |
| Partition coefficient: n-octanol/water | : | not determined   |
| Vapor pressure                         | : | 8.300 hPa (20 °C)  |
| Density                                | : | 0,77 g/cm <sup>3</sup> (20 °C)                             |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.  
Strong sunlight for prolonged periods.

Open flame  
Hot surface(s)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **ethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 4.934 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): 22,5 mg/l, > 6000 ppm  
Exposure time: 6 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20.000 mg/kg

##### **n-butyl acetate:**

Acute oral toxicity : LD50 (Rat): 10.760 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg  
Method: OECD Test Guideline 402

#### **Reaction mass of ethylbenzene and xylene:**

Acute oral toxicity : LD50 Oral (Rat): 3.523 - 4.000 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : LC50 (Rat, male): 6350 - 6700 ppm  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : LD50 Dermal (Rabbit): 12.126 mg/kg

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

#### **Components:**

##### **ethyl acetate:**

Result : Repeated exposure may cause skin dryness or cracking.

##### **Reaction mass of ethylbenzene and xylene:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Components:**

##### **Reaction mass of ethylbenzene and xylene:**

Result : Moderate eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

Not classified due to lack of data.

#### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT-single exposure**

May cause drowsiness or dizziness.

#### **Components:**

##### **n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

### Reaction mass of ethylbenzene and xylene:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data.

### Components:

### Reaction mass of ethylbenzene and xylene:

Assessment : May cause damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

Not classified due to lack of data.

### Components:

### Reaction mass of ethylbenzene and xylene:

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### ethyl acetate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 230 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 610 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 650 mg/l  
Exposure time: 16 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

Toxicity to fish (Chronic toxicity) : NOEC: > 9,65 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### **n-butyl acetate:**

Toxicity to fish : (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 23 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### **Reaction mass of ethylbenzene and xylene:**

Toxicity to fish : LC50 (Fish): 2,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia dubia (Water flea)): 1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (algae): 1,3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (algae): 0,44 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Bacteria): 96 mg/l

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Daphnia magna (Water flea)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

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### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.  
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### 12.2 Persistence and degradability

#### Components:

##### **ethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 79 %  
Related to: Biochemical oxygen demand  
Exposure time: 20 d  
Method: OECD Test Guideline 301D

##### **n-butyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 83 %  
Exposure time: 28 d

##### **Reaction mass of ethylbenzene and xylene:**

Biodegradability : Result: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **ethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 0,68 (25 °C)

##### **n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
Method: OECD Test Guideline 117

##### **Reaction mass of ethylbenzene and xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25,9

Partition coefficient: n-octanol/water : log Pow: 3,2 (20 °C)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

#### **Global warming potential**

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

#### Components:

##### **propane:**

20-year global warming potential: 0,072  
100-year global warming potential: 0,02  
500-year global warming potential: 0,006  
Atmospheric lifetime: 0,036 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

##### **butane (containing < 0,1 % butadiene (203-450-8)):**

20-year global warming potential: 0,022  
100-year global warming potential: 0,006  
500-year global warming potential: 0,002  
Atmospheric lifetime: 0,019 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : According to the European Waste Catalog, Waste Codes are not product specific, but application specific.  
Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

Waste Code : The following Waste Codes are only suggestions:  
150104, metallic packaging  
15 01 10, packaging containing residues of or contaminated  
by hazardous substances  
16 05 04, gases in pressure containers (including halons)  
containing hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

#### 14.2 UN proper shipping name

ADN : AEROSOLS  
ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
IATA : Aerosols, flammable

#### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADN  | : 2   | 2.1              |
| ADR  | : 2   | 2.1              |
| RID  | : 2   | 2.1              |
| IMDG | : 2.1 |                  |
| IATA | : 2.1 |                  |

#### 14.4 Packing group

ADN  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

ADR  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

### RID

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

---

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P3a FLAMMABLE AEROSOLS

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H225 | : Highly flammable liquid and vapor.                                 |
| H226 | : Flammable liquid and vapor.  |
| H304 | : May be fatal if swallowed and enters airways.                      |
| H312 | : Harmful in contact with skin.                                      |
| H315 | : Causes skin irritation.  |
| H319 | : Causes serious eye irritation.                                     |
| H332 | : Harmful if inhaled.  |
| H335 | : May cause respiratory irritation.                                  |
| H336 | : May cause drowsiness or dizziness.                                 |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2 DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Asp. Tox. : Aspiration hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
2017/164/EU / STEL : Short term exposure limit  
2017/164/EU / TWA : Limit Value - eight hours  
2019/1831/EU / TWA : Limit Value - eight hours  
2019/1831/EU / STEL : Short term exposure limit  
DE DFG MAK / MAK : MAK value  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem Power Mix Primer

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 20.09.2023  |
| 1.2     | DE / EN | 29.04.2024     | Date of first issue: 28.07.2022 |

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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|              |            |
|--------------|------------|
| Aerosol 1    | H222, H229 |
| Eye Irrit. 2 | H319       |
| STOT SE 3    | H336       |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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