

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

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

#### 1.1 Product identifier

Trade name : Carsystem AF.21 X-pert Thinner Standard  
Product code : 158.221

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

Use of the Sub-stance/Mixture : Solvent mixture  
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 AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|  |  |
|--|--|
| Flammable liquids, Category 3  | H226: Flammable liquid and vapor.  |
| Acute toxicity, Category 4   | H332: Harmful if inhaled.  |
| Skin irritation, Category 2  | H315: Causes skin irritation.  |
| 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.                                 |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system     | H335: May cause respiratory irritation.                                  |
| Specific target organ toxicity - repeated exposure, Category 2                       | H373: May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, Category 1  | H304: May be fatal if swallowed and enters airways.                      |
| Long-term (chronic) aquatic hazard, Category 3                                       | H412: Harmful to aquatic life with long lasting effects.                 |

#### 2.2 Label elements

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

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
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.  
H412 Harmful to aquatic life with long lasting effects.

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

Version 1.2 DE / EN Revision Date: 12.03.2024 Date of last issue: 22.11.2023  
Date of first issue: 18.08.2022

Precautionary Statements : **Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe mist or vapors.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.

**Disposal:**

- P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

xylene  
n-butyl acetate  
2-butoxyethyl acetate  
Hydrocarbons, C9, Aromatics

### 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 : Mixture

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|---------------|---|--|--------------------------|
| xylene        | 1330-20-7<br>215-535-7<br>601-022-00-9                | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312 | >= 25 - <= 50            |

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

Version  
1.2

DE / EN

Revision Date:  
12.03.2024

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|                                 |   |   |               |
|---------------------------------|---|---|---------------|
|                                 | 01-2119488216-32  | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>(Central nervous<br>system, Liver, Kid-<br>ney)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 |               |
| n-butyl acetate                 | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29 | Acute toxicity esti-<br>mate<br><br>Acute inhalation tox-<br>icity (vapor): 11 mg/l   |               |
| 2-methoxy-1-methylethyl 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<br>system)<br>EUH066  | >= 20 - <= 50 |
| 2-methoxy-1-methylethyl acetate | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous<br>system)  | >= 10 - < 20  |
| 2-butoxyethyl acetate           | 112-07-2<br>203-933-3<br>607-038-00-2<br>01-2119475112-47 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312  | >= 1 - <= 5   |
| 2-butoxyethyl acetate           | 112-07-2<br>203-933-3<br>607-038-00-2<br>01-2119475112-47 | Acute toxicity esti-<br>mate<br><br>Acute oral toxicity:<br>1.880 mg/kg<br>Acute inhalation tox-<br>icity (vapor): 11 mg/l<br>Acute dermal toxicity:<br>1.500 mg/kg   |               |
| Hydrocarbons, C9, Aromatics     | Not Assigned<br>918-668-5<br>01-2119455851-35             | Flam. Liq. 3; H226<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411<br>EUH066                                  | >= 1 - <= 5   |

For explanation of abbreviations see section 16.

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue:             |
| 1.2 DE / EN | 12.03.2024     | 22.11.2023                      |
|             |                | Date of first issue: 18.08.2022 |

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### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
Move out of dangerous area.  
Take off contaminated clothing and shoes immediately.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
Show this material safety data sheet to the doctor in attendance.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
If skin irritation occurs: Get medical advice/ attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
If easy to do, remove contact lens, if worn.  
Consult a physician.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
Aspiration hazard if swallowed - can enter lungs and cause damage.  
Call a physician immediately.

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

- Risks : Risk of product entering the lungs on vomiting after ingestion.  
Aspiration may cause pulmonary edema and pneumonitis.
- May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

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

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

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Treatment : Treat symptomatically.  
Keep under medical supervision for at least 48 hours.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet  
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 flammable mixture with air  
Vapors are heavier than air and may spread along floors.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

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

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Complete suit protecting against chemicals

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

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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.  
Ensure adequate ventilation, especially in confined areas.  
Remove all sources of ignition.  
Do not smoke.  
Avoid contact with skin, eyes and clothing.  
In the case of vapor formation use a respirator with an ap-

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
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---

proved filter.  
Avoid inhalation of vapor or mist.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
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 : Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

Do not flush with water.

### 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

Advice on safe handling : Keep container closed when not in use.  
Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Keep away from  
open flames, hot surfaces and sources of ignition. Do not  
smoke. Take measures to prevent the build up of electrostatic  
charge. Use explosion-proof equipment.

Hygiene measures : Avoid contact with the skin and the eyes. Do not breathe va-  
pors, mist or gas. When using do not eat, drink or smoke.

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

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a  
dry, cool and well-ventilated place.

Further information on stor- : Keep away from heat and sources of ignition. Keep away from  
age conditions direct sunlight.

Advice on common storage : Do not store together with oxidizing and self-igniting products.  
Incompatible with oxidizing agents.  
Keep away from food and drink.

Storage class (TRGS 510) : 3

### 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 AF.21 X-pert Thinner Standard

Version  
1.2

DE / EN

Revision Date:  
12.03.2024

Date of last issue: 22.11.2023  
Date of first issue: 18.08.2022

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components                      | CAS-No.   | Value type (Form of exposure) | Control parameters               | Basis            |
|---------------------------------|---|-------------------------------|----------------------------------|------------------|
| xylene                          | 1330-20-7   | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                               |                                  |                  |
|                                 |   | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                               |                                  |                  |
|                                 |   | AGW                           | 50 ppm<br>220 mg/m <sup>3</sup>  | DE TRGS<br>900   |
|                                 | Peak-limit category: 2;(II)   |                               |                                  |                  |
|                                 | Further information: Skin absorption  |                               |                                  |                  |
|                                 |   | MAK                           | 50 ppm<br>220 mg/m <sup>3</sup>  | DE DFG MAK       |
|                                 | Further information: Danger of absorption through the skin, 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 |                               |                                  |                  |
| n-butyl acetate                 | 123-86-4  | STEL                          | 150 ppm<br>723 mg/m <sup>3</sup> | 2019/1831/E<br>U |
|                                 | Further information: Indicative   |                               |                                  |                  |
|                                 |   | TWA                           | 50 ppm<br>241 mg/m <sup>3</sup>  | 2019/1831/E<br>U |
|                                 | Further information: Indicative   |                               |                                  |                  |
|                                 |   | AGW                           | 62 ppm<br>300 mg/m <sup>3</sup>  | DE TRGS<br>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<br>480 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   |                               |                                  |                  |
| 2-methoxy-1-methylethyl acetate | 108-65-6  | STEL                          | 100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                               |                                  |                  |
|                                 |   | TWA                           | 50 ppm<br>275 mg/m <sup>3</sup>  | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                               |                                  |                  |



# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

Version  
1.2

DE / EN

Revision Date:  
12.03.2024

Date of last issue: 22.11.2023  
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|                       |   |                           |                                 |                |
|-----------------------|---|---------------------------|---------------------------------|----------------|
|                       |   | AGW                       | 50 ppm<br>270 mg/m <sup>3</sup> | DE TRGS<br>900 |
|                       | Peak-limit category: 1;(I)  |                           |                                 |                |
|                       | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                  |                           |                                 |                |
|                       |   | MAK                       | 50 ppm<br>270 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   |                           |                                 |                |
| 2-butoxyethyl acetate | 112-07-2  | TWA                       | 20 ppm<br>133 mg/m <sup>3</sup> | 2000/39/EC     |
|                       | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                           |                                 |                |
|                       |   | STEL                      | 50 ppm<br>333 mg/m <sup>3</sup> | 2000/39/EC     |
|                       | Further information: Identifies the possibility of significant uptake through the skin, Indicative  |                           |                                 |                |
|                       |   | AGW (Vapour and aerosols) | 10 ppm<br>65 mg/m <sup>3</sup>  | DE TRGS<br>900 |
|                       | Peak-limit category: 2;(I)  |                           |                                 |                |
|                       | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                           |                                 |                |
|                       |   | MAK                       | 10 ppm<br>66 mg/m <sup>3</sup>  | DE DFG MAK     |
|                       | Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed    |                           |                                 |                |

### Biological occupational exposure limits

| Substance name        | CAS-No.   | Control parameters   | Sampling time   | Basis         |
|-----------------------|-----------|--|---|---------------|
| xylene                | 1330-20-7 | methylhippuric acid (all isomers): 2.000 mg/l (Urine)                | Immediately after exposure or after working hours   | TRGS 903      |
|                       |           | Methylhippuric acid (toluric acid) (all isomers): 2.000 mg/l (Urine) | Immediately after exposition or after working hours   | DE DFG<br>BAT |
| 2-butoxyethyl acetate | 112-07-2  | butoxy acetic acid: 150 mg/g creatinine (Urine)                      | In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours | TRGS 903      |
|                       |           | butoxy acetic acid: 150 mg/g creatinine (Urine)                      | end of shift, for long-term exposures after several previous shifts, Immediately after exposition or after  | DE DFG<br>BAT |

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

Version  
1.2

DE / EN

Revision Date:  
12.03.2024

Date of last issue: 22.11.2023  
Date of first issue: 18.08.2022

|  |  |  |               |  |
|--|--|--|---------------|--|
|  |  |  | working hours |  |
|--|--|--|---------------|--|

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

| Substance name                  | End Use         | Routes of exposure | Potential health effects                            | Value   |                       |
|---------------------------------|-----------------|--------------------|---|---|-----------------------|
| xylene                          | Workers         | Inhalation         | Long-term systemic effects, Long-term local effects | 221 mg/m <sup>3</sup>                               |                       |
|                                 | Workers         | Inhalation         | Acute systemic effects, Acute local effects         | 442 mg/m <sup>3</sup>                               |                       |
|                                 | Workers         | Skin contact       | Long-term systemic effects                          | 212 mg/kg bw/day                                    |                       |
|                                 | Consumers       | Inhalation         | Long-term systemic effects, Long-term local effects | 65,3 mg/m <sup>3</sup>                              |                       |
|                                 | Consumers       | Inhalation         | Acute systemic effects, Acute local effects         | 260 mg/m <sup>3</sup>                               |                       |
|                                 | Consumers       | Skin contact       | Long-term systemic effects                          | 125 mg/kg bw/day                                    |                       |
|                                 | Consumers       | Oral               | Long-term systemic effects                          | 12,5 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                                      |                       |
| 2-methoxy-1-methylethyl acetate | Workers         | Inhalation         | Long-term systemic effects                          | 275 mg/m <sup>3</sup>                               |                       |
|                                 | Workers         | Skin contact       | Long-term systemic effects                          | 796 mg/kg bw/day                                    |                       |
|                                 | Consumers       | Inhalation         | Long-term systemic effects                          | 33 mg/m <sup>3</sup>                                |                       |
|                                 | Consumers       | Skin contact       | Long-term systemic effects                          | 320 mg/kg bw/day                                    |                       |
|                                 | Consumers       | Oral               | Long-term systemic effects                          | 36 mg/kg bw/day                                     |                       |

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

## Carsystem AF.21 X-pert Thinner Standard

Version  
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|                             |           |              |                            |                       |
|-----------------------------|-----------|--------------|----------------------------|-----------------------|
| Hydrocarbons, C9, Aromatics | Workers   | Inhalation   | Long-term systemic effects | 150 mg/m <sup>3</sup> |
|                             | Workers   | Skin contact | Long-term systemic effects | 25 mg/kg bw/day       |
|                             | Consumers | Oral         | Long-term systemic effects | 11 mg/kg bw/day       |
|                             | Consumers | Skin contact | Long-term systemic effects | 11 mg/kg bw/day       |
|                             | Consumers | Inhalation   | Long-term systemic effects | 32 mg/m <sup>3</sup>  |

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

| Substance name                  | Environmental Compartment    | Value                         |
|---------------------------------|------------------------------|-------------------------------|
| xylene                          | Fresh water                  | 0,327 mg/l                    |
|                                 | Sea water                    | 0,327 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.)  |
| n-butyl acetate                 | Sewage treatment plant (STP) | 6,58 mg/l                     |
|                                 | Fresh water                  | 0,18 mg/l                     |
|                                 | Sea water                    | 0,018 mg/l                    |
|                                 | Fresh water sediment         | 0,981 mg/kg dry weight (d.w.) |
|                                 | Sea sediment                 | 0,098 mg/kg dry weight (d.w.) |
| 2-methoxy-1-methylethyl acetate | Sewage treatment plant (STP) | 35,6 mg/l                     |
|                                 | Soil                         | 0,09 mg/kg dry weight (d.w.)  |
|                                 | Fresh water                  | 0,635 mg/l                    |
|                                 | Sea water                    | 0,064 mg/l                    |
|                                 | Sewage treatment plant (STP) | 100 mg/l                      |
|                                 | Fresh water sediment         | 3,29 mg/kg dry weight (d.w.)  |
|                                 | Sea sediment                 | 0,329 mg/kg dry weight (d.w.) |
|                                 | Soil                         | 0,29 mg/kg dry weight (d.w.)  |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

### Hand protection

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : >= 0,7 mm  
Directive : DIN EN 374  
Protective index : Class 6

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness :  $\geq 0,7$  mm  
Directive : DIN EN 374  
Protective index : Class 6

Material : PVA  
Break through time : > 480 min  
Glove thickness :  $\geq 0,7$  mm  
Directive : DIN EN 374  
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. 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. 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 : Apply technical measures to comply with the occupational exposure limits.  
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Filter type : Combined particulates and organic vapor type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
Avoid contact with the skin and the eyes.  
Use only with adequate ventilation.

Keep away from heat and flame.

### Environmental exposure controls

Soil : Avoid subsoil penetration.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : colorless

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2     | DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

|  |   |  |
|--|---|--|
| Odor   | : | characteristic   |
| Melting point/freezing point                     | : | not determined   |
| Initial boiling point and boiling range          | : | 124 - 128 °C   |
| Upper explosion limit / Upper flammability limit | : | 15 %(V)  |
| Lower explosion limit / Lower flammability limit | : | 0,7 %(V)   |
| Flash point                                      | : | > 23 °C  |
| Autoignition temperature                         | : | not determined   |
| pH   | : | Not applicable substance/mixture is non-soluble (in water) |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | not determined   |
| Viscosity, kinematic                             | : | not determined   |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | immiscible   |
| Partition coefficient: n-octanol/water           | : | not determined   |
| Vapor pressure                                   | : | 10,7 hPa (20 °C)   |
| Density  | : | 0,88 - 0,9 g/cm <sup>3</sup> (20 °C)                       |

### 9.2 Other information

|            |   |   |
|------------|---|---|
| Explosives | : | Not explosive<br>In use, may form flammable/explosive vapour-air mixture. |
|------------|---|---|

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

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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.

Avoid amines.  
Incompatible with oxidizing agents.  
Incompatible with strong acids and bases.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Extremes of temperature and direct sunlight.

#### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

Amines  
Bases

#### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

---

### SECTION 11: Toxicological information

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

##### Acute toxicity

Harmful if inhaled.

##### Product:

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

Acute inhalation toxicity : Acute toxicity estimate: < 20 mg/l  
Test atmosphere: vapor  
Method: Expert judgment

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

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

### Components:

#### **xylene:**

- Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg
- Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Expert judgment
- Acute dermal toxicity : LD50 (Rabbit): > 1.700 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

#### **2-methoxy-1-methylethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 6.190 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

#### **2-butoxyethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 1.880 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Expert judgment
- Acute dermal toxicity : LD50 Dermal (Rabbit): 1.500 mg/kg

#### **Hydrocarbons, C9, Aromatics:**

- Acute oral toxicity : LD50 Oral (Rat, female): ca. 3.492 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 6,193 mg/l

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3.160 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes skin irritation.

#### Components:

##### xylene:

Result : Skin irritation

##### Hydrocarbons, C9, Aromatics:

Result : Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### 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.

#### Components:

##### Hydrocarbons, C9, Aromatics:

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### Carcinogenicity

Not classified due to lack of data.

#### Components:

##### Hydrocarbons, C9, Aromatics:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC)



# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

ment 1272/2008, Annex VI, Part 3, Note P)

### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

### Components:

#### xylene:

Assessment : May cause respiratory irritation.

#### n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

#### 2-methoxy-1-methylethyl acetate:

Routes of exposure : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

#### Hydrocarbons, C9, Aromatics:

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Components:

#### xylene:

Target Organs : Central nervous system, Liver, Kidney

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

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

#### xylene:

May be fatal if swallowed and enters airways.

#### Hydrocarbons, C9, Aromatics:

May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

### 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.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **xylene:**

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

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Method: Regulation (EC) No. 440/2008, Annex, C.20

##### **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)

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2     | 12.03.2024     | Date of first issue: 18.08.2022 |

---

Method: OECD Test Guideline 211

### 2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 47,5 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Orange-red killifish)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 2-butoxyethyl acetate:

Toxicity to fish : LC50 (Fish): 28 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 30 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Method: OECD Test Guideline 211

### Hydrocarbons, C9, Aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 9,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3,2 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (green algae)): 1 mg/l

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR: 1,228 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 2,144 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

#### **xylene:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301

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

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

#### **2-methoxy-1-methylethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### **2-butoxyethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 88 %  
Exposure time: 28 d

#### **Hydrocarbons, C9, Aromatics:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

## 12.3 Bioaccumulative potential

### Components:

#### **xylene:**

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 25,9

Partition coefficient: n-octanol/water : log Pow: 3,155 (20 °C)

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

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

### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8  
Method: OECD Test Guideline 117

### **2-butoxyethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,51 (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 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 : Do not let product enter drains.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2     | DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

---

- Product** : Do not dispose of with domestic refuse.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Dispose of in accordance with local regulations.  
Send to a licensed waste management company.  
Dispose of wastes in an approved waste disposal facility.  
It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
- Contaminated packaging** : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Store containers and offer for recycling of material when in accordance with the local regulations.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of in accordance with local regulations.
- Waste Code** : The following Waste Codes are only suggestions:  
14 06 03, other solvents and solvent mixtures
- 

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADN** : UN 1263  
**ADR** : UN 1263  
**RID** : UN 1263  
**IMDG** : UN 1263  
**IATA** : UN 1263

#### 14.2 UN proper shipping name

- ADN** : PAINT RELATED MATERIAL  
**ADR** : PAINT RELATED MATERIAL  
**RID** : PAINT RELATED MATERIAL  
**IMDG** : PAINT RELATED MATERIAL  
**IATA** : Paint related material

#### 14.3 Transport hazard class(es)

- |             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 3   |                  |
| <b>ADR</b>  | : 3   |                  |
| <b>RID</b>  | : 3   |                  |
| <b>IMDG</b> | : 3   |                  |
| <b>IATA</b> | : 3   |                  |

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

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### 14.4 Packing group

#### ADN

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

#### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

#### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

#### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 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

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

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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, 3

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. P5c FLAMMABLE LIQUIDS

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.



# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

### SECTION 16: Other information

#### Full text of H-Statements

H226 : Flammable liquid and vapor.  
H302 : Harmful if swallowed.  
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.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
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  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first 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 BAT : Germany. MAK BAT Annex XIII  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
TRGS 903 : c - Biological limit values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
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; AIIC - 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 La-

# SAFETY DATA SHEET

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

## Carsystem AF.21 X-pert Thinner Standard

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 22.11.2023  |
| 1.2 DE / EN | 12.03.2024     | Date of first issue: 18.08.2022 |

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; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Acute Tox. 4      | H332 |
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| STOT SE 3         | H336 |
| STOT SE 3         | H335 |
| STOT RE 2         | H373 |
| Asp. Tox. 1       | H304 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

Based on product data or assessment  
Expert judgment and weight of evidence determination.  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method

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