

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem Themo Spray schwarz

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

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

#### 1.1 Product identifier

Trade name : Carsystem Themo Spray schwarz

Product code : 126.086

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

Use of the Sub-  
stance/Mixture : Paints

Recommended restrictions : professional use, Industrial use  
on use

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

Company : Vosschemie GmbH  
Esinger Steinweg 50  
25436 Uetersen  
Germany  
  
info@vosschemie.de

Telephone : 04122 717 0  
Telefax : 04122 717158

**Responsible Department** : Laboratory  
  
04122 717 0  
sds@vosschemie.de

#### 1.4 Emergency telephone number

Telephone : Giftinformationszentrum (GIZ)-Nord,  
Göttingen, Deutschland  
0551 19240

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue:             |
| 1.1 GB / EN | 18.06.2021     | 01.10.2019                      |
|             |                | Date of first issue: 01.10.2019 |

### 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. |
| 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.  |
| Long-term (chronic) aquatic hazard, Category 2                                       | H411: Toxic to aquatic life with long lasting effects.                                  |

#### 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>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects.   |
| Supplemental Hazard Statements | : | Buildup of explosive mixtures possible without sufficient ventilation.   |
| Precautionary statements       | : | P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br><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>P260 Do not breathe spray.<br><b>Storage:</b> |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

Version 1.1 GB / EN Revision Date: 18.06.2021 Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Disposal:

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

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane butan-1-ol

### Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 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) |
|---|---|---|--------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Not Assigned<br>921-024-6<br>01-2119475514-35         | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411 | >= 25 - < 50             |
| Reaction mass of ethylbenzene and xylene                          | Not Assigned<br>905-588-0<br>01-2119486136-34,        | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312  | >= 5 - < 10              |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

Version  
1.1

GB / EN

Revision Date:  
18.06.2021

Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

|                  |  |   |              |
|------------------|--|---|--------------|
|                  | 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>Asp. Tox. 1; H304  |              |
| butan-1-ol       | 71-36-3<br>200-751-6<br>603-004-00-6<br>01-2119484630-38 | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>500 mg/kg | >= 1 - < 2.5 |
| Titanium dioxide | 13463-67-7<br>236-675-5<br>01-2119489379-17              | Carc. 2; H351   | >= 1 - < 2.5 |

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.
- 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 eye irritation persists, consult a specialist.
- If swallowed : Swallowing is not regarded as a possible method for exposure.  
Immediately give large quantities of water to drink.  
Call a physician immediately.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue:             |
| 1.1 GB / EN | 18.06.2021     | 01.10.2019                      |
|             |                | Date of first issue: 01.10.2019 |

---

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

Risks : Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

Treatment : Treat symptomatically.

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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 : Vapours 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 firefighters : 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 vapour or mist.  
Avoid contact with skin, eyes and clothing.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1 GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

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### 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.  
Keep in suitable, closed containers for disposal.

### 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.

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.

Hygiene measures : Do not inhale aerosol.

### 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 vapours 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.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

Version  
1.1

GB / EN

Revision Date:  
18.06.2021

Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

| Components  | CAS-No.  | Value type (Form of exposure) | Control parameters                 | Basis   |
|---|--|-------------------------------|------------------------------------|---------|
| butane (containing < 0,1 % butadiene (203-450-8)) | 106-97-8   | STEL                          | 750 ppm<br>1,810 mg/m <sup>3</sup> | GB EH40 |
|   | Further information: Capable of causing cancer and/or heritable genetic damage.  |                               |                                    |         |
|   |  | TWA                           | 600 ppm<br>1,450 mg/m <sup>3</sup> | GB EH40 |
|   | Further information: Capable of causing cancer and/or heritable genetic damage.  |                               |                                    |         |
| butan-1-ol  | 71-36-3  | STEL                          | 50 ppm<br>154 mg/m <sup>3</sup>    | GB EH40 |
|   | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                    |         |
| Titanium dioxide                                  | 13463-67-7   | TWA (inhalable dust)          | 10 mg/m <sup>3</sup>               | GB EH40 |
|   |  | TWA (Respirable dust)         | 4 mg/m <sup>3</sup>                | GB EH40 |

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

| Substance name  | End Use   | Exposure routes    | Potential health effects   | Value                  |
|---|-----------|--------------------|----------------------------|------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Workers   | Inhalation         | Long-term systemic effects | 2035 mg/m <sup>3</sup> |
|   | Workers   | Skin contact       | Long-term systemic effects | 773 mg/kg              |
|   | Consumers | Inhalation         | Long-term systemic effects | 608 mg/m <sup>3</sup>  |
|   | Consumers | Skin contact, Oral | Long-term systemic effects | 699 mg/kg              |

## 8.2 Exposure controls

### Personal protective equipment

Eye 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 can be obtained from the protective glove producer and this has to be observed. Preventive skin protection

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem Themo Spray schwarz

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | 18.06.2021     | Date of first issue: 01.10.2019 |

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- 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.  
In case of inadequate ventilation wear respiratory protection.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- 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 vapours or spray mist.

### Environmental exposure controls

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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : aerosol
- Colour : black
- Odour : characteristic
- Melting point/freezing point : not determined
- Initial boiling point and boiling range : Not applicable
- Upper explosion limit / Upper flammability limit : 10.9 %(V)
- Lower explosion limit / Lower flammability limit : 1.5 %(V)
- Flash point : Not applicable
- Ignition temperature : 365 °C
- pH : not determined substance/mixture is non-soluble (in water)
- Viscosity
- Viscosity, dynamic : not determined
- Viscosity, kinematic : not determined



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1 GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

---

Solubility(ies)  
Water solubility : immiscible

Partition coefficient: n-  
octanol/water : not determined

Vapour pressure : 8,300 hPa (20 °C)

Density : 0.73 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

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

Self-ignition : not auto-flammable

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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 : Vapours 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.

### 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 based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | 18.06.2021     | Date of first issue: 01.10.2019 |

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

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

### Components:

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Acute oral toxicity : LD50 Oral (Rat): > 5,840 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25.2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rat): > 2,800 - 3,100 mg/kg

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

Acute oral toxicity : LD50 Oral (Rat): 3,523 - 4,000 mg/kg  
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: vapour  
Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : LD50 Dermal (Rabbit): 12,126 mg/kg

#### **butan-1-ol:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate  
(\* ) Converted acute toxicity point estimate according to Table 3.1.2 of Annex I.

Acute dermal toxicity : (Rabbit): 3,430 mg/kg  
Method: OECD Test Guideline 402

#### **Titanium dioxide:**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 6.8 mg/l  
Exposure time: 4 h

#### **Skin corrosion/irritation**

Causes skin irritation.

### Components:

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | 18.06.2021     | Date of first issue: 01.10.2019 |

Result : Skin irritation

### Reaction mass of ethylbenzene and xylene:

Result : Skin irritation

### Titanium dioxide:

Remarks : No skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

### Reaction mass of ethylbenzene and xylene:

Result : Moderate eye irritation

### Titanium dioxide:

Remarks : Dust contact with the eyes can lead to mechanical irritation.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

### Titanium dioxide:

Remarks : No known sensitising effect.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

May cause drowsiness or dizziness.

### Components:

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Assessment : May cause drowsiness or dizziness.

### Reaction mass of ethylbenzene and xylene:

Assessment : May cause respiratory irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

Version  
1.1

GB / EN

Revision Date:  
18.06.2021

Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

---

### STOT - repeated exposure

Not classified based on available information.

#### Components:

#### Reaction mass of ethylbenzene and xylene:

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

### Aspiration toxicity

Not classified based on available information.

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

May be fatal if swallowed and enters airways.

#### 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:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 15.8 mg/l  
End point: mortality  
Exposure time: 72 h  
Method: OECD Test Guideline 203

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

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (green algae)): 10 - 30  
plants : mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | 18.06.2021     | Date of first issue: 01.10.2019 |

---

End point: Biomass  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 35.57 mg/l  
End point: Growth rate  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : NOELR: 2,045 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Ecotoxicology Assessment

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

### 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 : LC50 (Daphnia dubia (water flea)): 1 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

EC50 (Daphnia dubia (water flea)): 165 mg/l  
Exposure time: 24 h

Toxicity to algae/aquatic plants : EC50 (algae): 2.2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

IC50 (algae): 1 - 10 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Bacteria): 1 - 10 mg/l

### Ecotoxicology Assessment

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

### Titanium dioxide:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

Version 1.1 GB / EN Revision Date: 18.06.2021 Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

---

### 12.2 Persistence and degradability

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Biodegradability : Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Partition coefficient: n-octanol/water : No data available

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

Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)

##### **butan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 1.0 (25 °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 : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem Themo Spray schwarz

Version 1.1 GB / EN Revision Date: 18.06.2021 Date of last issue: 01.10.2019  
Date of first issue: 01.10.2019

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : According to the European Waste Catalogue, 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.
- Waste Code : The following Waste Codes are only suggestions:  
08 01 11, waste paint and varnish containing organic solvents or other hazardous substances  
150104, metallic packaging  
15 01 10, packaging containing residues of or contaminated by hazardous substances
- 

### 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  
(Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)  
IATA : Aerosols, flammable

#### 14.3 Transport hazard class(es)

- ADN : 2  
ADR : 2  
RID : 2  
IMDG : 2.1  
IATA : 2.1

#### 14.4 Packing group

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1 GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

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### 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)

### 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 : Division 2.1 - Flammable gases

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Division 2.1 - Flammable gases

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 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.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1 GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

### 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, preparations and articles (Annex XVII) : Not applicable

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

REACH - List of substances subject to authorisation (Annex XIV) : 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

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

E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: < 840 g/l  
VOC content for the product in a ready to use condition.

#### 15.2 Chemical safety assessment

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

### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1 GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

H351 : Suspected of causing cancer if inhaled.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
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  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Carsystem Themo Spray schwarz

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 01.10.2019  |
| 1.1     | GB / EN | 18.06.2021     | Date of first issue: 01.10.2019 |

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### Classification of the mixture:

|                   |            |
|-------------------|------------|
| Aerosol 1         | H222, H229 |
| Skin Irrit. 2     | H315       |
| Eye Irrit. 2      | H319       |
| STOT SE 3         | H336       |
| Aquatic Chronic 2 | H411       |

### Classification procedure:

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