

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

**1 Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
  - **Trade name:** CARSYSTEM ALUMINIUM-SPRAY
  - **Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
  - **Application of the substance / the preparation** *Paint*
  
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Vosschemie GmbH  
Esinger Steinweg 50  
D-25436 Uetersen  
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; [info@vosschemie.de](mailto:info@vosschemie.de)
  
  - **Further information obtainable from:**  
Abteilung Labor / +49 (0)4122 717 0  
[s.schaller@vosschemie.de](mailto:s.schaller@vosschemie.de)
  - **Emergency telephone number:**  
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
Phone: +49 (0)551 19240, +49 (0)551 383180
- 

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

**Xn; Harmful**

R20/21: Harmful by inhalation and in contact with skin.

**Xi; Irritant**

R38: Irritating to skin.

**F+; Extremely flammable**

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 1)

· **Information concerning particular hazards for human and environment:**

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Warning! Pressurized container.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful  
F+ Extremely flammable

· **Hazard-determining components of labelling:**

xylene, mixture of isomers

· **Risk phrases:**

12 Extremely flammable.

20/21 Harmful by inhalation and in contact with skin.

38 Irritating to skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe spray.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37 Wear suitable protective clothing and gloves.

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

· **Classification in accordance with Directive 75/324/EEC: Extremely flammable.**

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**\* 3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31












































Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 2)

· <b>Dangerous components:</b>		
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing $\leq 0.1\%$ butadiene (203-450-8))  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  Xn R65;  Xi R38;  F R11;  N R51/53 R67  Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34 01-2119488216-32	xylene, mixture of isomers  Xn R20/21;  Xi R38 R10  Flam. Liq. 3, H226;  STOT RE 2, H373;  Asp. Tox. 1, H304;  Acute Tox. 4, H312;  Acute Tox. 4, H332;  Skin Irrit. 2, H315;  Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised)  F R11  Flam. Sol. 1, H228	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35 02-2119752523-40	ethylbenzene  Xn R20;  F R11  Flam. Liq. 2, H225;  Acute Tox. 4, H332	1.0-2.5%
CAS: 162303-51-7 NLP: 500-687-7	Tetra-n-butyl titanate, polymer  Xn R22;  Xi R37/38-41 R67  Eye Dam. 1, H318;  Acute Tox. 4, H302;  Skin Irrit. 2, H315; STOT SE 3, H335-H336	1.0-2.5%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)  Xn R65 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  STOT SE 3, H336	1.0-2.5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn R65;  Xi R37;  N R51/53 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H335-H336	1.0-2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

· **Description of first aid measures**· **General information:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

(Contd. on page 4)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

**Trade name: CARSYSTEM ALUMINIUM-SPRAY**

(Contd. of page 3)

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

**· After inhalation:**

*Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*

*In case of unconsciousness place patient stably in side position for transportation.*

**· After skin contact:**

*Immediately wash with water and soap and rinse thoroughly.*

*If skin irritation continues, consult a doctor.*

**· After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

**· After swallowing:** *Drink plenty of water and provide fresh air. Call for a doctor immediately.*

**· Information for doctor:**

**· Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

**· Indication of any immediate medical attention and special treatment needed**

*No further relevant information available.*

## 5 Firefighting measures

**· Extinguishing media**

**· Suitable extinguishing agents:** *CO<sub>2</sub>, sand, extinguishing powder. Do not use water.*

**· For safety reasons unsuitable extinguishing agents:** *Water*

**· Special hazards arising from the substance or mixture**

*Carbon monoxide and carbon dioxide*

*Formation of toxic gases is possible during heating or in case of fire.*

**· Advice for firefighters****· Protective equipment:**

*Do not inhale explosion gases or combustion gases.*

*Wear self-contained respiratory protective device.*

**· Additional information**

*Cool endangered receptacles with water spray.*

*Remove undamaged containers from the danger zone.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

## 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment. Keep unprotected persons away.*

*Keep away from ignition sources.*

*Ensure adequate ventilation*

*Do not inhale gases / fumes / aerosols.*

*Use respiratory protective device against the effects of fumes/dust/aerosol.*

*Avoid contact with the eyes and skin.*

**· Environmental precautions:**

*Inform respective authorities in case of seepage into water course or sewage system.*

*Do not allow to enter sewers/ surface or ground water.*

**· Methods and material for containment and cleaning up:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Ensure adequate ventilation.*

*Do not flush with water or aqueous cleansing agents*

**· Reference to other sections**

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

See Section 13 for disposal information.

(Contd. of page 4)

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Open and handle receptacle with care.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:**  
Fumes can combine with air to form an explosive mixture.  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Store receptacle in a well ventilated area.  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## \* 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**106-97-8 butane (containing ≤0.1% butadiene (203-450-8))**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
---------------------	---

**1330-20-7 xylene, mixture of isomers**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

(Contd. on page 6)

-GB

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

**Trade name: CARSYSTEM ALUMINIUM-SPRAY**

(Contd. of page 5)

**100-41-4 ethylbenzene**

WEL (Great Britain)	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin

**· DNELs**
**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	Long-term exposure - systemic effects	699 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	699 mg/kg bw/day (general population) 773 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	608 mg/m <sup>3</sup> (general population) 2035 mg/m <sup>3</sup> (worker)

**1330-20-7 xylene, mixture of isomers**

Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	108 mg/kg bw/day (general population) 180 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	174 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Acute/short-term exposure - systemic effects	174 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	14.8 mg/m <sup>3</sup> (general population) 77 mg/m <sup>3</sup> (worker)

**100-41-4 ethylbenzene**

Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	293 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	15 mg/m <sup>3</sup> (general population) 77 mg/m <sup>3</sup> (worker)

**64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

Oral	Acute/short-term exposure - systemic effects	125 mg/kg bw/day (general population)
Dermal	Acute/short-term exposure - systemic effects	125 mg/kg bw/day (general population)
	Long-term exposure - systemic effects	208 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - systemic effects	900 mg/m <sup>3</sup> (general population)
	Long-term exposure - systemic effects	871 mg/m <sup>3</sup> (worker)

**· PNECs**
**1330-20-7 xylene, mixture of isomers**

PNEC STP	6.58 mg/l (-)
PNEC aqua	0.327 mg/l (freshwater)
	0.327 mg/l (marine water)
	0.327 mg/l (intermittent releases)
PNEC sediment	12.46 mg/kg (freshwater)
	12.46 mg/kg (marine water)

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 6)

**100-41-4 ethylbenzene**

PNEC STP	9.6 mg/l (-)
PNEC aqua	0.1 mg/l (freshwater) 0.01 mg/l (marine water) 0.1 mg/l (intermittent releases)
PNEC oral	0.02 mg/kg (-)
PNEC sediment	13.7 mg/kg (freshwater) 2.68 mg/kg (marine water)
PNEC soil	2.68 mg/kg (soil dw)

· **Ingredients with biological limit values:****1330-20-7 xylene, mixture of isomers**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
----------------------	--

· **Additional information:** The lists valid during the making were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX

· **Protection of hands:**

Protective gloves

**Solvent resistant gloves**

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Butyl rubber, BR

Empfohlene Materialstärke:  $\geq 0.4$  mm

(Contd. on page 8)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 7)

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Aerosol
Colour:	Silver grey
Odour:	Characteristic

- **pH-value:** Not determined

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.

- **Flash point:** Not applicable, as aerosol.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower:	1.1 Vol %
Upper:	10.9 Vol %

- **Vapour pressure at 20 °C:** 8300 hPa

- **Density at 20 °C:** 0.83 g/cm<sup>3</sup>
- **Vapour density:** Not determined

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined

- **Viscosity:**

Dynamic:	Not determined
Kinematic:	Not determined
VOC (EC)	733.8 g/l

- **Other information:** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No decomposition if used according to specifications.

- **Chemical stability:** No decomposition if used and stored according to specifications.

- **Possibility of hazardous reactions:** No dangerous reactions known.

(Contd. on page 9)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 8)

- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**106-97-8 butane (containing  $\leq 0.1\%$  butadiene (203-450-8))**

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
	LC50 /4h	> 13023 ppm (rat)

**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2800 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 23 mg/l (rat)

**74-98-6 propane**

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
------------	------------	--------------------------

**1330-20-7 xylene, mixture of isomers**

Oral	LD 50	> 4000 mg/kg (rat)
Dermal	LD 50	> 1700 mg/kg (rabbit)
Inhalative	LC 50 / 4h	21.7 mg/l (rat) (Vapour)
	LC50 /4h	5000 ppm (rat) (Gas)

**7429-90-5 aluminium powder (stabilised)**

Oral	LD50	> 2000 mg/kg (rat)
Inhalative	LC50 /4h	888 mg/m <sup>3</sup> (rat)

**100-41-4 ethylbenzene**

Oral	LD50	3500 mg/kg (rat)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	17.2 mg/l (rat)

**64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

Oral	LD 50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3000 mg/kg (rab) (OECD 402)
Inhalative	LC50 /4h	> 5000 mg/m <sup>3</sup> (rat) (OECD 403, Vapour)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD 50	> 6800 mg/kg (rat)
Dermal	LD 50	> 3400 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 10.2 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.

- **Subacute to chronic toxicity:**

**7429-90-5 aluminium powder (stabilised)**

Inhalative	NOAEL	10 mg/m <sup>3</sup> (rat)
------------	-------	----------------------------

(Contd. on page 10)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 9)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

· **Sensitisation** No sensitizing effects known.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:****64742-49-0 Naphtha (petroleum), hydrotreated light**

EC50/48h	3 mg/l (daphnia magna)
EC50/72h	10-30 mg/l (oncorhynchus mykiss)
LC50/96h	> 13.4 mg/l (oncorhynchus mykiss)
LOEC	0.32 mg/l (daphnia magna) (21 days)
NOEC	0.17 mg/l (daphnia magna) (21 days)
NOEL	10 mg/l (Pseudokirchneriella subcapitata) (72 h)

**1330-20-7 xylene, mixture of isomers**

EC50	> 175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss)
NOEC	> 1.3 mg/l (oncorhynchus mykiss) (56 d)

**100-41-4 ethylbenzene**

EC50/48h	2.4 mg/l (daphnia magna) > 5.2 mg/l (americamysis bahia)
EC50/72h	4.6 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	4.2 mg/l (oncorhynchus mykiss)

**64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

EL50/48h	4.5 mg/l (daphnia magna) (OECD Guideline 202)
EL50/72h	3.1 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	10 mg/l (oncorhynchus mykiss) (OECD Guideline 203)
NOELR	0.5 mg/l (daphnia magna) (OECD Guideline 202)
NOELR (aqua chron.)	2.6 mg/l (daphnia magna) (OECD Guideline 211, 21d)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

EC50/48h	7.4 mg/l (daphnia magna)
EL50/72h	56 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	3.77 mg/l (fish)
LL50/96h	10 mg/l (oncorhynchus mykiss) (OECD 203)
NOELR (aqua chron.)	2.6 mg/l (daphnia magna) (OECD 211, 21d) 2.6 mg/l (pimephales promelas) (OECD 204, 14d)

(Contd. on page 11)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 10)

· **Persistence and degradability****1330-20-7 xylene, mixture of isomers**

Biodegradation 87.8 % (-) (28d)

**100-41-4 ethylbenzene**

Biodegradation &gt; 70 % (-) (28 d)

**64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

Biodegradation 77 % (activated sludge) (OECD Guideline 301 F)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Biodegradation 74.3 % (-) (ISO/DIS 14593, 28d)

· **Behaviour in environmental systems:**· **Bioaccumulative potential****106-97-8 butane (containing ≤0.1% butadiene (203-450-8))**

log Pow 2.8 (-)

**1330-20-7 xylene, mixture of isomers**

BCF 6 - 23.4 (-)

log Pow &gt; 3 (-)

**100-41-4 ethylbenzene**

log Pow 3.1 (-)

**64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

BCF 10 - 2500 (lit.) (calculated)

log Kow &gt; 3 (-)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

BCF 10 - 2500 (lit.) (calculated)

log Kow &gt; 3 (-)

· **Mobility in soil****64742-48-9 Naphtha (Petroleum), Hydrotreated Heavy (<0,1% Benzen)**

Koc 60.7 - 229.2 (lit.) (calculated value)

log Koc 1.783 - 2.36 (lit.) (calculated value)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Koc 60.7 - 229.2 (lit.) (calculated value)

log Koc 1.783 - 2.36 (lit.) (calculated value)

· **Ecotoxicological effects:**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

GB

(Contd. on page 12)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 11)

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**  
The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· <b>European waste catalogue</b>
08 01 11   waste paint and varnish containing organic solvents or other dangerous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- |                                  |               |
|----------------------------------|---------------|
| · <b>UN-Number</b>               | UN1950        |
| · <b>ADR, IMDG, IATA</b>         |               |
| · <b>UN proper shipping name</b> | 1950 AEROSOLS |
| · <b>ADR</b>                     | AEROSOLS      |
| · <b>IMDG, IATA</b>              |               |

· <b>Transport hazard class(es)</b>	
· <b>ADR</b>	
	
· <b>Class</b>	2 5F Gases.
· <b>Label</b>	2.1






· <b>IMDG, IATA</b>	
	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2.1





- |                          |      |
|--------------------------|------|
| · <b>Packing group</b>   | Void |
| · <b>ADR, IMDG, IATA</b> |      |

- |                                 |    |
|---------------------------------|----|
| · <b>Environmental hazards:</b> | No |
| · <b>Marine pollutant:</b>      |    |

- |                                       |                 |
|---------------------------------------|-----------------|
| · <b>Special precautions for user</b> | Warning: Gases. |
| · <b>EMS Number:</b>                  | F-D,S-U         |

- |  |                 |
|--|-----------------|
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
|--|-----------------|

(Contd. on page 13)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

Trade name: CARSYSTEM ALUMINIUM-SPRAY

(Contd. of page 12)

· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Transport category** 2
- **Tunnel restriction code** D

\* **15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC 2004/42/IIB (e) (840) <760**
- **National regulations:**
- **Information about limitation of use:**
  - Employment restrictions concerning juveniles must be observed.
  - Employment restrictions concerning pregnant and lactating women must be observed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H280 Contains gas under pressure; may explode if heated.
- 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.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- .....
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R22 Harmful if swallowed.
- R37 Irritating to respiratory system.
- R37/38 Irritating to respiratory system and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 14)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 27.05.2013

V - 5

Revision: 27.05.2013

**Trade name: CARSYSTEM ALUMINIUM-SPRAY**

(Contd. of page 13)

- R65 *Harmful: may cause lung damage if swallowed.*  
R66 *Repeated exposure may cause skin dryness or cracking.*  
R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **\* Data compared to the previous version altered.**

GB