

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

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

- **1.1 Product identifier**
 - **Trade name:** CARSYSTEM SPOTBLENDER
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
The product is intended for professional use.
 - **Application of the substance / the mixture** Coloured glaze
 - **1.3 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
 - **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
 - **1.4 Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240
-

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

(Contd. on page 2)

GB

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: **CARSYSTEM SPOTBLENDER**

(Contd. of page 1)

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R20/21-65: Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.

Xi; Irritant

R37: Irritating to respiratory system.
R10-52/53-66: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

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

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms

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

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotising effect.

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.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02

GHS07

GHS08

· **Signal word Danger**

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

xylene, mixture of isomers

n-butyl acetate

Hydrocarbons, C9, aromatics

· **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

(Contd. on page 3)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 2)

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
CAS: 763-69-9 EINECS: 212-112-9 Reg.nr.: 01-2119463267-34	ethyl 3-ethoxypropionate R10-66 Flam. Liq. 3, H226	5-15%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 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	5-15%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics 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	5-15%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one Xn R20; Xi R36/37; F R11 R66 Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-butoxyethyl acetate Xn R20/21 Acute Tox. 4, H312; Acute Tox. 4, H332	1-5%

(Contd. on page 4)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 3)

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

SECTION 4: First aid measures**· 4.1 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.

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.

Use skin protection cream for skin protection.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Do not induce vomiting; call for medical help immediately.**· 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

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

Water with full jet

Water

· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

Carbon monoxide and carbon dioxide

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

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Remove undamaged containers from the danger zone.

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

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

GB

(Contd. on page 5)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 4)

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

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

Avoid contact with the eyes and skin.

· 6.2 Environmental precautions:

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

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

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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

Do not seal receptacle gas tight.

Danger of bursting.

Dispose of the material collected according to regulations.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**· 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Use only in well ventilated areas.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Information about fire - and explosion protection:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Flammable gas-air mixtures may form in empty receptacles.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Anti-explosion protection required

· 7.2 Conditions for safe storage, including any incompatibilities**· Storage:****· Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Adhere to the provisions of the Law on Water Protection.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Pls. refer to section 10

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

(Contd. on page 6)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 5)

· 7.3 *Specific end use(s)* No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 *Control parameters*

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

123-86-4 n-butyl acetate

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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108-10-1 4-methylpentan-2-one

WEL (Great Britain)	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sk, BMGV
IOELV (EU)	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm

112-07-2 2-butoxyethyl acetate

WEL (Great Britain)	Short-term value: 332 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Sk
IOELV (EU)	Short-term value: 333 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Skin

· *DNELs*

123-86-4 n-butyl acetate

Oral	Long-term exposure - systemic effects	3.4 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	3.4 mg/kg bw/day (general population) 7 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	859.7 mg/m ³ (general population) 960 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	859.7 mg/m ³ (general population) 960 mg/m ³ (worker)
	Long-term exposure - local effects	102.34 mg/m ³ (general population) 480 mg/m ³ (worker)
	Long-term exposure - systemic effects	102.34 mg/m ³ (general population) 480 mg/m ³ (worker)

763-69-9 ethyl 3-ethoxypropionate

Oral	Long-term exposure - systemic effects	1.2 mg/kg bw/day (general population)
Dermal	Long-term exposure - local effects	102 mg/cm ² (worker)
	Long-term exposure - systemic effects	24.2 mg/kg bw/day (general population) 102 mg/kg bw/day (worker)
Inhalative	Long-term exposure - local effects	72.6 mg/m ³ (general population) 610 mg/m ³ (worker)

(Contd. on page 7)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 6)

	Long-term exposure - systemic effects	72.6 mg/m ³ (general population) 610 mg/m ³ (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 ³ (general population) 289 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	174 mg/m ³ (general population) 289 mg/m ³ (worker)
	Long-term exposure - systemic effects	14.8 mg/m ³ (general population) 77 mg/m ³ (worker)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population) 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (general population) 150 mg/m ³ (worker)
108-10-1 4-methylpentan-2-one		
Oral	Long-term exposure - systemic effects	4.2 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	4.2 mg/kg bw/day (general population) 11.8 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	155.2 mg/m ³ (general population) 208 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	155.2 mg/m ³ (general population) 208 mg/m ³ (worker)
	Long-term exposure - local effects	14.7 mg/m ³ (general population) 83 mg/m ³ (worker)
	Long-term exposure - systemic effects	14.7 mg/m ³ (general population) 83 mg/m ³ (worker)
112-07-2 2-butoxyethyl acetate		
Dermal	Acute/short-term exposure - systemic effects	102 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	102 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	333 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	775 mg/m ³ (worker)
	Long-term exposure - systemic effects	133 mg/m ³ (worker)
· PNECs		
123-86-4 n-butyl acetate		
PNEC STP	35.6 mg/l (-)	
PNEC aqua	0.18 mg/l (freshwater)	
	0.018 mg/l (marine water)	
	0.36 mg/l (intermittent releases)	

(Contd. on page 8)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 7)

<i>PNEC sediment</i>	0.981 mg/kg (freshwater) 0.0981 mg/kg (marine water)
<i>PNEC soil</i>	0.0903 mg/kg (soil dw)

763-69-9 ethyl 3-ethoxypropionate

<i>PNEC STP</i>	50 mg/l (-)
<i>PNEC aqua</i>	0.0609 mg/l (freshwater) 0.00609 mg/l (marine water) 0.609 mg/l (intermittent releases)
<i>PNEC sediment</i>	0.419 mg/kg (freshwater) 0.0419 mg/kg (marine water)
<i>PNEC soil</i>	0.048 mg/kg (-)

1330-20-7 xylene, mixture of isomers

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

108-10-1 4-methylpentan-2-one

<i>PNEC STP</i>	27.5 mg/l (-)
<i>PNEC aqua</i>	0.6 mg/l (freshwater) 0.06 mg/l (marine water) 1.5 mg/l (intermittent releases)
<i>PNEC sediment</i>	8.27 mg/kg (freshwater) 0.83 mg/kg (marine water)
<i>PNEC soil</i>	1.3 mg/kg (-)

112-07-2 2-butoxyethyl acetate

<i>PNEC STP</i>	90 mg/l (-)
<i>PNEC aqua</i>	0.304 mg/l (freshwater) 0.0304 mg/l (marine water) 0.56 mg/l (intermittent releases)
<i>PNEC sediment</i>	2.03 mg/kg (freshwater) 0.203 mg/kg (marine water)
<i>PNEC soil</i>	0.68 mg/kg (soil dw)

· Ingredients with biological limit values:

108-10-1 4-methylpentan-2-one

<i>BMGV (Great Britain)</i>	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one
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· Additional information: The lists valid during the making were used as basis.

(Contd. on page 9)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 8)

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Do not eat, drink, smoke or sniff while working.**Do not inhale gases / fumes / aerosols.**Avoid contact with the eyes and skin.**Wash hands before breaks and at the end of work.*· **Respiratory protection:***Adhere to the workplace limit values and / or other threshold values.**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 A/P2**Use suitable respiratory protective device in case of insufficient ventilation.*· **Protection of hands:**

Protective 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.**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*· **Material of gloves***Butyl rubber, BR**Fluorocarbon rubber (Viton)**Nitrile rubber, NBR**PVA gloves**Recommended thickness of the material: ≥ 0.7 mm**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*· **Penetration time of glove material***Value for the permeation: Level ≤ 6 (≥ 480 min.)**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

GB

(Contd. on page 10)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 9)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic

· pH-value: Not determined

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	114 °C

· Flash point: 28 °C

· Flammability (solid, gaseous): Flammable.

· Ignition temperature: Not determined

· Self-igniting: Not determined

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

· Explosion limits:

Lower:	0.7 Vol %
Upper:	15.0 Vol %

· Vapour pressure at 20 °C: 10.7 hPa

· Density at 20 °C: 0.9 g/cm³

· 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.

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No decomposition if used according to specifications.

· 10.2 Chemical stability: No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Fumes can combine with air to form an explosive mixture.

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

· 10.4 Conditions to avoid: Protect from heat and direct sunlight.

· 10.5 Incompatible materials:

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with oxidising agents.

(Contd. on page 11)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 10)

- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC 50 / 4h	23.4 mg/l (rat) (OECD 403, aerosol)
	LC50 /4h	> 21 mg/l (rat) (OECD 403, vapour)

763-69-9 ethyl 3-ethoxypropionate

Oral	LD50	5140 mg/kg (rat) (OECD 401)
Dermal	LD50	4080 mg/kg (rabbit) (OECD 402)

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)

64742-95-6 Hydrocarbons, C9, aromatics

Oral	LD 50	> 3500 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 /4h	> 6193 mg/m ³ (rat) (OECD Guideline 403, vapour)

108-10-1 4-methylpentan-2-one

Oral	LD50	4600 mg/kg (rat)
Dermal	LD 50	> 3000 mg/kg (rab)
Inhalative	LC 50 / 4h	8.3-16.6 mg/l (rat)

112-07-2 2-butoxyethyl acetate

Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	1580 mg/kg (rabbit)
Inhalative	LC50 /6h	> 3.06 mg/l (rat) (saturated vapour concentration)

- **Primary irritant effect:**
- **on the skin:**
Irritant to skin and mucous membranes.
Repeated exposure may cause skin dryness or cracking.
- **on the eye:** Irritating effect.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:**
If swallowed or in case of vomiting, danger of entering the lungs.
May cause respiratory irritation.
Vapours may cause drowsiness and dizziness.
Has a narcotising effect.

(Contd. on page 12)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 11)

- May cause damage to organs through prolonged or repeated exposure.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****123-86-4 n-butyl acetate**

EC50	356 mg/l (bacteria) (Tetrahymena, 40h)
EC50/48h	44 mg/l (daphnia magna)
EC50/72h	674.7 mg/l (scenedesmus subspicatus) 647.7 mg/l (desmodesmus subspicatus)
LC50	64 mg/l (danio rerio) (48h)
LC50/96h	18 mg/l (pimephales promelas) (OECD 203)
NOEC	200 mg/l (desmodesmus subspicatus)

763-69-9 ethyl 3-ethoxypropionate

EC50/48h	785 mg/l (daphnia magna) (OECD 202, EU Method C.2)
EC50/72h	> 114.86 mg/l (Pseudokirchneriella subcapitata) (OECD 201, EEC/Annex V C.3)
LC50/96h	45.3 mg/l (pimephales promelas) (OECD 203, EU Method C.1)

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)

64742-95-6 Hydrocarbons, C9, aromatics

EC50/48h	7.4 mg/l (daphnia magna)
EL50/48h	3.2 mg/l (daphnia) (OECD Guideline 202, mobility)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita) (OECD Guideline 203)
NOELR (aqua chron.)	2.144 mg/l (daphnia magna) (21d, calculated by a computer model)

108-10-1 4-methylpentan-2-one

EC50/48h	> 200 mg/l (daphnia magna) (OECD 202)
LC50/96h	> 179 mg/l (danio rerio) > 505 mg/l (pimephales promelas)
NOEC	78 mg/l (daphnia magna) (OECD 211, 21d)
NOEC (aqua chron.)	7.8 - 38 mg/l (daphnia magna) (21d) 168 mg/l (pimephales promelas) (33d)

112-07-2 2-butoxyethyl acetate

EC50/0.5h	22 mg/l (activated slugde) (OECD 209)
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(Contd. on page 13)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 12)

EC50/48h	67.5 mg/l (daphnia magna) (ISO 6341 15)
EC50/72h	1570 mg/l (Pseudokirchneriella subcapitata) (ISO 8692)
LC50/96h	28 mg/l (oncorhynchus mykiss) (OECD 203)

· **12.2 Persistence and degradability**

A part of the components is biodegradable.

123-86-4 n-butyl acetate

Biodegradation 83 % (-) (OECD 301 D 28d)

1330-20-7 xylene, mixture of isomers

Biodegradation 87.8 % (-) (28d)

64742-95-6 Hydrocarbons, C9, aromatics

Biodegradation > 70 % (-) (OECD Guideline 301 F, 28d)

· **12.3 Bioaccumulative potential**

123-86-4 n-butyl acetate

BCF 15.3 (-)

log Pow 2.3 (-) (OECD 117)

763-69-9 ethyl 3-ethoxypropionate

BCF 3.05 (-)

log Pow 1.47 (-)

1330-20-7 xylene, mixture of isomers

BCF 6 - 23.4 (-)

log Pow > 3 (-)

108-10-1 4-methylpentan-2-one

log Kow 1.31 (-)

log Pow 1.38 (-)

112-07-2 2-butoxyethyl acetate

BCF 1.51 (-)

log Kow 1.51 (-)

· **Behaviour in environmental systems:**

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Harmful to aquatic organisms

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.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

(Contd. on page 14)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 13)

· 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.

· European waste catalogue

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.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· ADR 1263 PAINT
· IMDG, IATA PAINT

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards: Not applicable.

· 14.6 Special precautions for user

· Danger code (Kemler): Warning: Flammable liquids.
· EMS Number: 30
· EMS Number: F-E,S-D

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR
· Limited quantities (LQ) 5L
· Transport category 3
· Tunnel restriction code D/E

GB

(Contd. on page 15)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 14)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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**
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - 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.
- **R10 Flammable.**
- **R11 Highly flammable.**
- **R20 Harmful by inhalation.**
- **R20/21 Harmful by inhalation and in contact with skin.**
- **R36/37 Irritating to eyes and respiratory system.**
- **R37 Irritating to respiratory system.**
- **R38 Irritating to skin.**
- **R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**
- **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 Organisation
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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)

(Contd. on page 16)

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

Printing date 20.05.2015

V - 1

Revision: 20.05.2015

Trade name: CARSYSTEM SPOTBLENDER

(Contd. of page 15)

*PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

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