Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.05.2013 *V - 4* *Revision: 02.05.2013*

*

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

· **Product identifier**

· **Trade name: CARSYSTEM 2K - FILLER WET on WET**
· **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

· **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
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.


N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

(Contd. on page 2)

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

Printing date 02.05.2013 *V - 4* *Revision: 02.05.2013*

Trade name: CARSYSTEM 2K - FILLER WET on WET

(Contd. of page 1)

· ***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 narcotizing 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.

· ***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
N Dangerous for the environment

· ***Risk phrases:***
10 Flammable.
20/21 Harmful by inhalation and in contact with skin.
38 Irritating to skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· ***Safety phrases:***
2 Keep out of the reach of children.
23 Do not breathe vapour/spray.
24 Avoid contact with skin.
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.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· ***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)

(Contd. of page 2)

· **Dangerous components:**

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	5-15%
EC number: 905-562-9 Reg.nr.: 01-2119555267-33	Reaction mass of ethylbenzene and m-xylene and p-xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-15%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226	2.5-10%
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	2.5-10%
CAS: 110-43-0 EINECS: 203-767-1 Reg.nr.: 01-2119902391-49	heptan-2-one Xn R20/22 R10 Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332	1-5%
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%
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	1-5%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5-2%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.5%

· **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.
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 or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 4)

(Contd. of page 3)

· **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:** Do not induce vomiting; call for medical help 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:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **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.
Can form explosive gas-air mixtures.
· **Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
· **Additional information**
Remove undamaged containers from the danger zone.
Cool endangered receptacles with water spray.
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.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
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:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
· **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).
Dispose contaminated material as waste according to item 13.
· **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 02.05.2013 *V - 4* *Revision: 02.05.2013*

Trade name: CARSYSTEM 2K - FILLER WET on WET

(Contd. of page 4)

See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Open and handle receptacle with care.
Do not inhale gases / fumes / aerosols.
Ensure good ventilation/exhaustion at the workplace.
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.
Fumes can combine with air to form an explosive mixture.
Flammable gas-air mixtures may form in empty receptacles.
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 only in the original receptacle.
Provide solvent resistant, sealed floor.
Adhere to the provisions of the Law on Water Protection.
· ***Information about storage in one common storage facility:***
Store away from oxidizing agents.
Keep away from foodstuffs, beverages and feed.
· ***Further information about storage conditions:***
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Keep ignition sources away - Do not smoke.
· ***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:***	
1330-20-7 xylene, mixture of isomers	
WEL (Great Britain)	*Short-term value: 441 mg/m³, 100 ppm* *Long-term value: 220 mg/m³, 50 ppm* *Sk; BMGV*
IOELV (EU)	*Short-term value: 442 mg/m³, 100 ppm* *Long-term value: 221 mg/m³, 50 ppm* *Skin*

(Contd. on page 6)

(Contd. of page 5)

108-65-6 2-methoxy-1-methylethyl acetate	
WEL (Great Britain)	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin
123-86-4 n-butyl acetate	
WEL (Great Britain)	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
110-43-0 heptan-2-one	
WEL (Great Britain)	Short-term value: 475 mg/m³, 100 ppm Long-term value: 237 mg/m³, 50 ppm Sk
IOELV (EU)	Short-term value: 475 mg/m³, 100 ppm Long-term value: 238 mg/m³, 50 ppm Skin
112-07-2 2-butoxyethyl acetate	
WEL (Great Britain)	Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk
IOELV (EU)	Short-term value: 333 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Skin

· **DNELs**

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/m³ (general population)
		289 mg/m³ (worker)
	Acute/short-term exposure - systemic effects	174 mg/m³ (general population)
		289 mg/m³ (worker)
	Long-term exposure - systemic effects	14.8 mg/m³ (general population)
		77 mg/m³ (worker)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	Long-term exposure - systemic effects	1.67 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	54.8 mg/kg bw/day (general population)
		153.5 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	33 mg/m³ (general population)
		275 mg/m³ (worker)
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/m³ (general population)

(Contd. on page 7)

(Contd. of page 6)

		960 mg/m³ (worker)
	Acute/short-term exposure - systemic effects	*859.7 mg/m³ (general population)*
		960 mg/m³ (worker)
	Long-term exposure - local effects	*102.34 mg/m³ (general population)*
		480 mg/m³ (worker)
	Long-term exposure - systemic effects	*102.34 mg/m³ (general population)*
		480 mg/m³ (worker)
110-43-0 heptan-2-one		
Dermal	*Long-term exposure - systemic effects*	*54-27 mg/kg bw/day (worker)*
Inhalative	*Acute/short-term exposure - systemic effects*	*1516 mg/m³ (worker)*
	Long-term exposure - systemic effects	*394.25 mg/m³ (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/m³ (worker)*
	Acute/short-term exposure - systemic effects	*775 mg/m³ (worker)*
	Long-term exposure - systemic effects	*133 mg/m³ (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/m³ (general population)*
		150 mg/m³ (worker)
7779-90-0 trizinc bis(orthophosphate)		
Oral	*Long-term exposure - systemic effects*	*0.83 mg/kg bw/day (general population)*
Dermal	*Long-term exposure - systemic effects*	*83 mg/kg bw/day (general population)*
		83 mg/kg bw/day (worker)
Inhalative	*Long-term exposure - systemic effects*	*2.5 mg/m³ (general population)*
		5 mg/m³ (worker)
1314-13-2 zinc oxide		
Oral	*Long-term exposure - systemic effects*	*0.83 mg/kg bw/day (general population)*
Dermal	*Long-term exposure - systemic effects*	*83 mg/kg bw/day (general population)*
		83 mg/kg bw/day (worker)
Inhalative	*Long-term exposure - systemic effects*	*2.5 mg/m³ (general population)*
		5 mg/m³ (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 8)

(Contd. of page 7)

108-65-6 2-methoxy-1-methylethyl acetate	
PNEC STP	100 mg/l (-)
PNEC aqua	0.635 mg/l (freshwater)
	0.0635 mg/l (marine water)
	6.35 mg/l (intermittent releases)
PNEC sediment	3.29 mg/kg (freshwater)
	0.329 mg/kg (marine water)
PNEC soil	0.29 mg/kg (soil dw)
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)
PNEC sediment	0.981 mg/kg (freshwater)
	0.0981 mg/kg (marine water)
PNEC soil	0.0903 mg/kg (soil dw)
110-43-0 heptan-2-one	
PNEC STP	12.5 mg/l (-)
PNEC aqua	0.0982 mg/l (freshwater)
	0.00982 mg/l (marine water)
	0.982 mg/l (intermittent releases)
PNEC sediment	1.89 mg/kg (freshwater)
	0.189 mg/kg (marine water)
PNEC soil	0.321 mg/kg (soil dw)
112-07-2 2-butoxyethyl acetate	
PNEC STP	90 mg/l (-)
PNEC aqua	0.304 mg/l (freshwater)
	0.0304 mg/l (marine water)
	0.56 mg/l (intermittent releases)
PNEC sediment	2.03 mg/kg (freshwater)
	0.203 mg/kg (marine water)
PNEC soil	0.68 mg/kg (soil dw)
7779-90-0 trizinc bis(orthophosphate)	
PNEC STP	0.052 mg/l (-)
PNEC aqua	0.0206 mg/l (freshwater)
	0.0061 mg/l (marine water)
PNEC sediment	117.8 mg/kg (freshwater)
	56.5 mg/kg (marine water)
PNEC soil	35.6 mg/kg (soil dw)
1314-13-2 zinc oxide	
PNEC STP	0.052 mg/l (-)
PNEC aqua	0.0206 mg/l (freshwater)
	0.0061 mg/l (marine water)

(Contd. on page 9)

(Contd. of page 8)

PNEC sediment	*117.8 mg/kg (freshwater)*
	56.5 mg/kg (marine water)
PNEC soil	*35.6 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:***
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Do not inhale gases / fumes / aerosols.
Wash hands before breaks and at the end of work.
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.
· ***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
· ***Protection of hands:***
Preventive skin protection by use of skin-protecting agents is recommended.

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.
Check the permeability prior to each anewed 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
· ***Material of gloves***
Nitrile rubber, NBR
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***
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 10)

(Contd. of page 9)

· **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:	*Highly viscous*
Colour:	*Grey*
· **Odour:**	*Characteristic*
· **Change in condition**	
Melting point/Melting range:	*Undetermined.*
Boiling point/Boiling range:	*Undetermined.*
· **Flash point:**	*> 23 °C*
· **Ignition temperature:**	*330 °C*
· **Self-igniting:**	*Product is not selfigniting.*
· **Danger of explosion:**	*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
· **Density at 20 °C:**	*~ 1.3 g/cm³*
· **Solubility in / Miscibility with water:**	*Not miscible or difficult to mix.*
· **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**
Fumes can combine with air to form an explosive mixture.
Reacts with acids, alkalis and oxidizing agents.
· **Conditions to avoid** *Avoid naked flames, sparks, other ignition sources and sunlight.*
· **Incompatible materials:** *No further relevant information available.*
· **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 11)

(Contd. of page 10)

*

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**		
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)
Reaction mass of ethylbenzene and m-xylene and p-xylene		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rabbit)
Inhalative	LC50 /4h	6350 ppm (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)
		> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	35.7 mg/l (rat)
	LC50 /6h	>23.8 mg/l (rat) (Dust/Mist)
123-86-4 n-butyl acetate		
Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	23.4 mg/l (rat) (OECD 403 (Dust/Mist))
110-43-0 heptan-2-one		
Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	10206 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 16.7 mg/l (rat) (OECD 403, EU Method B.2, Vapour)
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)
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/m³ (rat)
7779-90-0 trizinc bis(orthophosphate)		
Oral	LD 50	>5000 mg/kg (rat)
Inhalative	LC 50 / 4h	> 5.7 mg/l (rat) (Mist/Dust)
1314-13-2 zinc oxide		
Oral	LD 50	> 5000 mg/kg (rat)
	LD50	7950 mg/kg (mouse)
Inhalative	LC 50 / 4h	> 5.7 mg/l (rat) (Dust/Mist)

(Contd. on page 12)

(Contd. of page 11)

· **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:**
Danger through skin adsorption.
Vapours may cause drowsiness and dizziness.
Has a narcotizing effect.
· **Sensitisation** No sensitizing effects known.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

*

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
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)
Reaction mass of ethylbenzene and m-xylene and p-xylene	
EC50/3h	> 157 mg/l (activated slugde) (OECD 209)
EC50/48h	> 3.4 mg/l (daphnia magna) (EPA 600/4-91-003)
EC50/72h	4.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	2.6 mg/l (oncorhynchus mykiss) (OECD 203)
LOEC	3.16 mg/l (daphnia magna) (OECD 211, 21d)
NOEC	1.57 mg/l (daphnia magna) (OECD 211, 21d)
	> 1.3 mg/l (oncorhynchus mykiss) (56d)
108-65-6 2-methoxy-1-methylethyl acetate	
EC10/0,5h	>1000 mg/l (activated slugde) (OECD 209)
EC50/48h	>500 mg/l (daphnia magna) (67/548/EWG Apendix V, C.2.)
EC50/72h	> 1000 mg/l (Pseudokirchneriella subcapitata) (OECD- 201)
LC50/96h	134 mg/l (oncorhynchus mykiss) (OECD- 203)
	> 100 mg/l (Oryzias latipes) (OECD 203)
NOEC	≥ 100 mg/l (daphnia magna) (21d, OECD 202)
	47.5 mg/l (Oryzias latipes) (14d, OECD 204)
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)

(Contd. on page 13)

(Contd. of page 12)

LC50/96h	18 mg/l (pimephales promelas) (OECD 203)
NOEC	200 mg/l (desmodesmus subspicatus)
110-43-0 heptan-2-one	
EC50/48h	> 90.1 mg/l (daphnia magna) (OECD 202)
EC50/72h (static)	75.5 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	131 mg/l (pimephales promelas) (EPA OPP 72-1)
112-07-2 2-butoxyethyl acetate	
EC50/0.5h	22 mg/l (activated slugde) (OECD 209)
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)
64742-95-6 Hydrocarbons, C9, aromatics	
EL50/48h	3.2 mg/l (daphnia)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita)
1314-13-2 zinc oxide	
EC50	0.042 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	3.2 mg/l (daphnia magna)
LC50/96h	2.17 mg/l (oncorhynchus mykiss)
NOEC	0.4 mg/l (daphnia magna) (48 h)

· **Persistence and degradability**

1330-20-7 xylene, mixture of isomers	
Biodegradation	87.8 % (-) (28d)
108-65-6 2-methoxy-1-methylethyl acetate	
BSB	83 % (activated slugde) (28d, OECD 301 F)
Biodegradation	100 % (-) (OECD 302 B, 8d)
123-86-4 n-butyl acetate	
Biodegradation	83 % (-) (OECD 301 D 28d)
110-43-0 heptan-2-one	
Biodegradation	69 % (-) (OECD 310, 28d)
64742-95-6 Hydrocarbons, C9, aromatics	
Biodegradation	> 70 % (-) (28d)

· **Behaviour in environmental systems:**

· **Bioaccumulative potential**

1330-20-7 xylene, mixture of isomers	
BCF	6 - 23.4 (-)
log Pow	> 3 (-)
Reaction mass of ethylbenzene and m-xylene and p-xylene	
BCF	< 100 (-)
Kow	1425 (-)
log Kow	3.15 (-)
108-65-6 2-methoxy-1-methylethyl acetate	
log Pow	0.43 (-)

(Contd. on page 14)

(Contd. of page 13)

123-86-4 n-butyl acetate	
BCF	15.3 (-)
log Pow	2.3 (-) (OECD 117)
110-43-0 heptan-2-one	
Kow	2.26 (-)
112-07-2 2-butoxyethyl acetate	
BCF	1.51 (-)
log Kow	1.51 (-)

· **Mobility in soil**

Reaction mass of ethylbenzene and m-xylene and p-xylene	
Koc	537 (-) (OECD 212)
log Koc	2.73 (-)

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

13 Disposal considerations

· **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.

· **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.

14 Transport information

· **UN-Number**
· **ADR, IMDG, IATA** UN1263

· **UN proper shipping name**
· **ADR** 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· **IMDG, IATA** PAINT

(Contd. on page 15)

(Contd. of page 14)

· **Transport hazard class(es)**

· **ADR**

· **Class**	3 Flammable liquids.
· **Label**	3

· **IMDG, IATA**

· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Flammable liquids.
· **Danger code (Kemler):**	30
· **EMS Number:**	F-E,S-E
· **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

15 Regulatory information

· **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.
· **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**
H226 Flammable liquid and vapour.

(Contd. on page 16)

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

Printing date 02.05.2013 *V - 4* *Revision: 02.05.2013*

Trade name: CARSYSTEM 2K - FILLER WET on WET

(Contd. of page 15)

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R20/22 Harmful by inhalation and if swallowed.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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 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
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.***