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Safety data sheet

according to 1907/2006/EC, Article 31 V - 2Revision: 11.07.2016 Printing date 29.09.2017 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: CARSYSTEM 2K Hardener Vario · 1.2 Relevant identified uses of the substance or mixture and uses advised against Not determined · Application of the substance / the mixture Hardening agent/ Curing agent \cdot 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 ¹.5 Distributed By: Sydney Automotive Paint and Equipment Unit A3, 366 Edgar Street Condell Park NSW 2200 Australia Tel: +61 2 9772 9000 Email: reception@sape.com.au **Emergency telephone:** AU Poison Information Centre 13 11 26 General medical information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST) +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST) **Transport information:**

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
 Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Contd. on page 2)



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Trade name: CARSYSTEM 2K Hardener Vario

Description. Mixitre of subs	nances listed below with honnazarabus daditions.	
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; 🐠 STOT SE 3, H336	25-50%
EC number: 931-274-8 Reg.nr.: 01-2119485796-17	Hexamethylene diisocyanate homopolymer � Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	10-<20%
CAS: 53317-61-6 NLP: 500-120-8	aromatic polyisocyanate	10-<20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	10-<20%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene, mixture of isomers 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	3.0-<10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	1.0-<3.0%
CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050-47	Tosylisocyanate & Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.3-<1.0%
CAS: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34	m-tolylidene diisocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	0.3-<1.0%

Additional information: For the wording of the listed hazard 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 or oxygen; call for doctor.

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:* Do not induce vomiting; call for medical help immediately.

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V - 2Revision: 11.07.2016 Printing date 29.09.2017 Trade name: CARSYSTEM 2K Hardener Vario (Contd. of page 3) • 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 Hazchem: •3Y • Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. · For safety reasons unsuitable extinguishing agents: Water with full jet Water \cdot 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures. During heating or in case of fire poisonous gases are produced. Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (HCN) · 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 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. **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: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents Pls. refer to section 10 Do not seal receptacle gas tight. Danger of bursting. · 6.4 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)



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Trade name: CARSYSTEM 2K Hardene	er Vario	
See Section 13 for disposal information	ion.	(Contd. of page 4
SECTION 7: Handling and st	forage	
7.1 Precautions for safe handling Ensure good ventilation/exhaustion a	at the workplace.	·
Do not inhale gases / fumes / aerosol Avoid contact with the eyes and skin.	ecially at floor level. (Fumes are net ls.	avier man air).
• Information about fire - and explosi Vapours of the product are heavier to with higher concentration.	ion protection: than air and may accumulate on th	e ground, in mines, drains or cellar
Fumes can combine with air to form Keep ignition sources away - Do not Protect against electrostatic charges.	an explosive mixture. smoke.	
Use explosion-proof apparatus / fittin Anti-explosion protection required	ngs and spark-proof tools.	
 7.2 Conditions for safe storage, inclusion Storage: 	uding any incompatibilities	
Requirements to be met by storeroom Store only in the original receptacle.	ns and receptacles:	
• Information about storage in one co Pls. refer to section 10	ommon storage facility:	
Keep away from foodstuffs, beverage • Further information about storage c	es and feed. conditions:	
Store in cool, dry conditions in well s Store receptacle in a well ventilated of Brotact from humidity and water	sealed receptacles. area.	
Trolect from numulity and water.	t.	

· 8.1 Control parameters

· Ingredients with limit	it values that require monitoring at the workplace:	
123-86-4 n-butyl ace	etate and the second	
WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm	
	Long-term value: 724 mg/m³, 150 ppm	
108-65-6 2-methoxy-	-1-methylethyl acetate	
WEL (Great Britain)	Short-term value: 548 mg/m ³ , 100 ppm	
	Long-term value: 274 mg/m ³ , 50 ppm	
	Sk	
IOELV (EU)	Short-term value: 550 mg/m ³ , 100 ppm	
- (-)	Long-term value: 275 mg/m ³ , 50 ppm	
	Skin	
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1330-20-7	xylene, m	ixture of isomers		
WEL (Gree	at Britain)	Short-term value: 441 mg/m ³ , 100) ppm	
		Sk: BMGV	ppm	
IOFLV (EU)		Short-term value: 442 mg/m ³ 100 nnm		
(- /	Long-term value: 221 mg/m ³ , 50 p	ppm	
		Skin		
100-41-4 е	ethylbenzer	ne		
WEL (Gree	at Britain)	Short-term value: 552 mg/m ³ , 125	ppm	
		Long-term value: 441 mg/m³, 100 Sk	ppm	
IOELV (E)	(I)	Short-term value: 884 mg/m ³ 200	nnm	
	0)	Long-term value: 442 mg/m ³ , 100	ppm	
		Skin		
26471-62-	5 m-tolylid	lene diisocyanate		
WEL (Gre	at Britain)	Short-term value: 0.07 mg/m ³		
		Long-term value: 0.02 mg/m^3		
		Sen; as -NCO		
DNELs				
123-86-4 n	ı-butyl ace	tate		
Oral	Long-tern	n exposure - systemic effects	3.4 mg/kg bw/day (general population)	
Dermal	Long-tern	n exposure - systemic effects	3.4 mg/kg bw/day (general population)	
			7 mg/kg bw/day (worker)	
Inhalative	Long-tern	n exposure - systemic effects	102.34 mg/m^3 (general population)	
			480 mg/m ³ (worker)	
	Acute/sho	rt-term exposure - systemic effects	859.7 mg/m^3 (general population)	
			960 mg/m ³ (worker)	
	Acute/sho	rt-term exposure - local effects	859.7 mg/m^3 (general population)	
			960 mg/m ³ (worker)	
	Long-tern	n exposure - local effects	102.34 mg/m^3 (general population)	
			480 mg/m³ (worker)	
Hexameth	ylene diiso	cyanate homopolymer		
Inhalative	Acute/sho	rt-term exposure - local effects	1.0 mg/m^3 (worker)	
100 57 53	Long-tern	n exposure - local effects	0.5 mg/m^3 (worker)	
108-65-62	e-methoxy-	1-methylethyl acetate		
Oral	Long-tern	n exposure - systemic effects	1.67 mg/kg bw/day (general population)	
Dermal	Long-tern	n exposure - systemic effects	54.8 mg/kg bw/day (general population)	
	_		153.5 mg/kg bw/day (worker)	
Inhalative	Long-tern	n exposure - systemic effects	<i>33 mg/m³ (general population)</i>	
			275 mg/m³ (worker)	
1330-20-7	xylene, m	ixture of isomers		
Oral	Long-tern	n exposure - systemic effects	1.6 mg/kg bw/day (general population)	
Dermal	Long-tern	n exposure - systemic effects	108 mg/kg bw/day (general population)	
			180 mg/kg bw/day (worker)	



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Inhalative 1	Long-term exposure - systemic effects	14.8 mg/m ³ (general population)
		77 mg/m^3 (worker)
F	Acute/short-term exposure - systemic effect	s 174 mg/m ³ (general population)
	1 2 00	289 mg/m^3 (worker)
F	Acute/short-term exposure - local effects	174 mg/m^3 (general population)
	1 55	289 mg/m^3 (worker)
100-41-4 eth	hylbenzene	
Oral 1	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal 1	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative 1	Long-term exposure - systemic effects	15 mg/m ³ (general population)
		$77 mg/m^3$ (worker)
A	Acute/short-term exposure - local effects	293 mg/m^3 (worker)
4083-64-1 7	<i>Sosylisocyanate</i>	
Dermal 1	Long-term exposure - systemic effects	0.92 mg/kg bw/day (worker)
Inhalative 1	Long-term exposure - systemic effects	$3.24 mg/m^3$ (worker)
26471-62-5	m-tolylidene diisocyanate	
Inhalative 1	long-term exposure - systemic effects	0.035 mg/m ³ (worker)
A	Acute/short-term exposure - systemic effect	s 0.14 mg/m ³ (worker)
F	Acute/short-term exposure - local effects	0.14 mg/m^3 (worker)
1	Long-term exposure - local effects	0.035 mg/m ³ (worker)
PNECs		
123-86-4 n-	butyl acetate	
PNEC aqua	0.18 mg/l (freshwater)	
	0.018 mg/l (marine water)	
	0.36 mg/l (intermittent releases)	
PNEC sedin	ient 0.981 mg/kg (freshwater)	
	0.0981 mg/kg (marine water)	
PNEC STP	35.6 mg/l	
PNEC soil	0.0903 mg/kg (soil dw)	
Hexamethy	lene diisocyanate homopolymer	
PNEC aqua	0.127 mg/l (freshwater)	
	0.0127 mg/l (marine water)	
PNEC sedin	ient 266700 mg/kg	
PNEC STP	38.28 mg/l	
PNEC soil	53182 mg/kg (soil dw)	
108-65-6 2-1	methoxy-1-methylethyl acetate	
PNEC aqua	0.635 mg/l (freshwater)	
1	0.0635 mg/l (marine water)	
	6.35 mg/l (intermittent releases)	
PNEC sedin	ient 3.29 mg/kg (freshwater)	
	0.329 mg/kg (marine water)	
PNEC STP	100 mg/l	
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PNEC soil	0.29 mg/kg (soil dw)
1330-20-7 xylen	e, mixture of isomers
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)
PNEC STP	6.58 mg/l
100-41-4 ethylbo	enzene
PNEC aqua	0.1 mg/l (freshwater)
	0.01 mg/l (marine water)
	0.1 mg/l (intermittent releases)
PNEC sediment	13.7 mg/kg (freshwater)
	2.68 mg/kg (marine water)
PNEC STP	9.6 mg/l
PNEC soil	2.68 mg/kg (soil dw)
PNEC oral	0.02 mg/kg
4083-64-1 Tosyl	isocyanate
PNEC aqua	0.03 mg/l (freshwater)
	0.003 mg/l (marine water)
	0.3 mg/l (intermittent releases)
PNEC sediment	0.172 mg/kg (freshwater)
	0.0172 mg/kg (marine water)
PNEC STP	0.4 mg/l
PNEC soil	0.0168 mg/kg (soil dw)
26471-62-5 m-to	olylidene diisocyanate
PNEC aqua	0.0125 mg/l (freshwater)
	0.00125 mg/l (marine water)
	0.125 mg/l (intermittent releases)
PNEC STP	1 mg/l
PNEC soil	1 mg/kg
Ingredients with	biological limit values:
1330-20-7 xylen	e, mixture of isomers
BMGV (Great B	ritain) 650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: methyl hippuric acid
Additional infor	<i>mation:</i> The lists valid during the making were used as basis.

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Do not eat, drink, smoke or sniff while working.

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according to 1907/2006/EC, Article 31 V - 2Revision: 11.07.2016 Printing date 29.09.2017 Trade name: CARSYSTEM 2K Hardener Vario (Contd. of page 8) Do not inhale gases / fumes / aerosols. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing Wash contaminated clothing before reuse. 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. Use respiratory protective device against the effects of fumes/dust/aerosol. 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 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 Butyl rubber, BR Nitrile rubber, NBR **PVA** gloves Recommended thickness of the material: > 0.7 mmThe 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 $\leq 6 \ (\geq 480 \text{min.})$ The exact break trough 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)



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SECTION 9: Physical and chemi	cal properties
• 9.1 Information on basic physical and c • General Information	hemical properties
· Appearance:	EL.: J
Form: Colour:	r una Colourlass
· Odour:	Characteristic
. Change in condition	
Melting point/freezing point:	Undetermined
Initial boiling point and boiling range	: Undetermined.
· Flash point:	24°C
· Ignition temperature:	Not determined
· Auto-ignition temperature:	Not determined
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.0 Vol %
Upper:	15.0 Vol %
· Vapour pressure at 20°C:	10.7 hPa
· Density at 20°C:	1 g/cm ³
• Solubility in / Miscibility with water:	Not miscible or difficult to mix. Reacts with water.
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity: Dynamic: Kinematic:	Not determined 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 acids, alkalis and oxidising agents.
Reacts with water.
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: No further relevant information available.
10.6 Hazardous decomposition products:

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

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Pls. see additionally section 5.

SECTION 11: Toxicological information

· 11.1 Infor · Acute toxi	mation on t a city Based o	oxicological effects on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification:		
123-86-4 n	n-butyl aceta	ate
Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	> 21 mg/l (rat) (OECD 403, vapour)
	LC 50 / 4h	23.4 mg/l (rat) (OECD 403, aerosol)
Hexameth	ylene diisoc	yanate homopolymer
Oral	LD 50	> 738 mg/kg (rat)
Dermal	LD 50	> 593 mg/kg (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	4345 mg/l (rat)
1330-20-7	xylene, mix	ture of isomers
Oral	LD 50	> 2000 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)
100-41-4 e	thylbenzen	2
Oral	LD50	3500 mg/kg (rat)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LC50 /4h	17.2 mg/l (rat)
4083-64-1	Tosylisocya	inate
Oral	LD50	2330 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
26471-62	5 m-tolylide	ne diisocyanate
Oral	LD50	4130 mg/kg (rat) (OECD-401)
Dermal	LD 50	> 9400 mg/kg (rabbit) (OECD-402)
Inhalative	LC50 /4h	0.235 mg/l (rat) (OECD-403, Vapour)
	LC50 /4h	107 mg/m ³ (rat) (OECD 403, Dust)
• Primary ir • Skin corro • Serious ev	ritant effect sion/irritati e damage/ir	t: on Based on available data, the classification criteria are not met. ritation

Causes serious eye irritation.

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· Subacule i	o chronic toxicity:		
26471-62	5 m-tolylidene diisocyand	ite	
Inhalative	LOAEL 0.05 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)	
Additional	toxicological informatio	n: Has a narcotising effect.	
Sensitisati	on		
Sensitisatio	on possible through inhal	ation.	
No sensitis	ing effects known.		
CMR effect	cts (carcinogenity, mutag	enicity and toxicity for reproduction)	
Carcinoge	nicity		
26471-62	5 m-tolylidene diisocyand	ite	
Inhalative	NOAEL (carcinogenicity	9) 0.15 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)	
Reproduct	ive toxicity/Fertility No fi	urther relevant information available.	
Reproduct	ive toxicity/Teratogenicit	у	
26471-62	5 m-tolylidene diisocyand	<i>ate</i>	
Inhalative	NOAEL (teratogenicity)	0.5 mg/l (rat) (OECD 414, 21d, 6h/day)	
	NOAEL (maternally)	0.1 mg/l (rat) (OECD 414, 21d, 6h/day, Vapour, Inhalativ)	

- · STOT-single exposure
- May cause respiratory irritation. May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

*

· Aquatic toxicity:		
123-86-4 n-but	tyl 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)	
LC50/96h	18 mg/l (pimephales promelas) (OECD 203)	
LC50	64 mg/l (danio rerio) (48h)	
NOEC	200 mg/l (desmodesmus subspicatus)	
Hexamethylene diisocyanate homopolymer		
EC50/72h	> 1000 mg/l (desmodesmus subspicatus) (OECD 201)	
EL50/48h	127 mg/l (daphnia magna) (EU Method C.2)	
LC50/96h	8.9 mg/l (danio rerio) (OECD 203)	
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)	
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LC50/96h	134 mg/ (oncorhynchus mykiss) (OFCD- 203)	(Contd. of page
Lesopon	> 100 mg/l (Orcorrigan latings) (OECD 203)	
NOFC	> 100 mg/t (Oryzus tumpes) (OECD 205)	
NOEC	2 100 mg/l (aupmin magna) (21a, OECD 202) 47.5 mg/l (Oppring latings) (14d, OECD 204)	
1330_20_7 rv	47.5 mg/t (Oryzias langes) (14a, OECD 204)	
1550-20-7 xy	> 175 mg/l (activated slugde)	
EC50/48h	2 82 mg/l (dentrated stugger)	
EC30/48n	3.62 mg/l (aapnnia magna)	
EC50/72n	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 ethy	ylbenzene	
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)	
4083-64-1 Ta	osylisocyanate	
EC50/48h	>100 mg/l (daphnia magna)	
EC50/72h	30 mg/l (Pseudokirchneriella subcapitata)	
LC50	>45 mg/l (fish) (48h)	
26471-62-5 n	n-tolylidene diisocyanate	
EC50/48h (st	atic) 12.5 mg/l (daphnia magna) (OECD-202)	
EC50/96h (st	atic) 4300 mg/l (Chlorella vulgaris) (OECD 201)	
	133 mg/l (oncorhynchus mykiss) (OECD-203)	
	3230 mg/l (Skeletonema costatum) (OECD-201)	
NOEC	> 1000 mg/l (Eisenia fetida) (OECD 207, 14d)	
	1.1 mg/l (daphnia magna)	
12.2 Persister	nce and degradability	
123-86-4 n-b	utyl acetate	
Biodegradati	on 83 % (OECD 301 D 28d)	
108-65-6 2-m	nethoxy-1-methylethyl acetate	
BSB	83 % (activated slugde) (28d, OECD 301 F)	
Biodegradati	on 100 % (OECD 302 B, 8d)	
1330-20-7 xv	lene, mixture of isomers	
Biodegradati	on 87.8 % (28d)	
100-41-4 eth	vlbenzene	
Biodegradati	on > 70 % (28 d)	
4083-64-1 To	psvlisocvanate	
Biodegradati	on 86 % (OECD 301 D, 28d, aerobic)	
12.3 Bioaccu	mulative potential	
123-86-4 n-b	utyl acetate	
log Pow 2.3	(OECD 117)	
D <i>G</i> D		



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Hexamethylene diisocyanate homopolymer
log Pow 9.81
BCF 3.2
108-65-6 2-methoxy-1-methylethyl acetate
log Pow 0.56
1330-20-7 xylene, mixture of isomers
log Pow > 3
BCF 6 - 23.4
100-41-4 ethylbenzene
log Pow 3.1
· Behaviour in environmental systems:
· 12.4 Mobility in soil
123-86-4 n-butyl acetate
log Koc 1.27
108-65-6 2-methoxy-1-methylethyl acetate
Koc 1.7
· Additional ecological information:
· General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage
system.
· 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.

· 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

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14.2 UN proper shipping name ADR IMDG, IATA	1263 PAINT PAINT
14.3 Transport hazard class(es)	Hazchem: •3Y
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	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	<i>F-E</i> , <u><i>S-D</i></u>
14.7 Transport in bulk according to Ann	nex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El Maximum not quantity por inner packaging, 20 ml
	Maximum net quantity per timer packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	maximum nei quanity per outer packaging: 1000 ml

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · European regulations
- Directive 2004/42/EC 2004/42/IIB (c) (540) <540

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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· 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. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to the hearing organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. · Department issuing SDS: 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)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

 $\cdot *$ Data compared to the previous version altered.

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