VOSSCHEMIE

according to Regulation (EC) No. 1907/2006

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
SECTIO	N 1: Identification of	the substance	/mixture and of the company/undertaking
1.1 Prod	uct identifier		
Trac	le name	: Carsystem	2K HARDENER VARIO
Proc	duct code	: 147.682	
1.2 Relev	vant identified uses of	the substance o	r mixture and uses advised against
	of the Sub- ce/Mixture	: Curing che	mical
Rec on u	ommended restrictions ise		to professional users. Attention - Avoid exposure cial instructions before use.
1.3 Deta	ails of the supplier of t	he safety data sh	neet
Con	npany	: Vosschemie Esinger Ste 25436 Uete Germany	inweg 50
		info@vosso	hemie.de
Tele Tele	phone Ifax	: 04122 717 : 04122 7171	
Res	ponsible Department	: Laboratory	
		04122 717 sds@vossc	-
1.4 Eme	ergency telephone nun	nber	
Tele	phone	: POISONS I Australia	NFORMATION CENTRE
		13 11 26	
1.5 Deta	ils of the supplier/imp	orter	
Corr	ipany		omotive Paints and Equipment 6 Edgar Street k, 2200
		reception@	sape.com.au
Tele Tele	phone fax	: 02 9772 900 : 02 9772 900	
Res	ponsible Department	: Marketing 02 9772 900	00

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version		Revision Date:	Date of last issue: 10.09.2019
2.0	GB / EN	15.06.2021	Date of first issue: 10.09.2019

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

posure, Category 3, Respiratory system

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. 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.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	Prevention:P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P261Avoid breathing mist or vapours.P271Use only outdoors or in a well-ventilated area.

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

protective clothing/ eye protec- entilation wear respiratory pro-
ntainer to an approved facility in
national and international regu-

Hazardous components which must be listed on the label:

n-butyl acetate Hexamethylene diisocyanate, oligomers aromatic polyisocyanate 4-isocyanatosulphonyltoluene m-tolylidene diisocyanate

Additional Labelling

EUH204

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

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3.2 Mixtures

Chemical nature

Mixture contains Isocyanates

Components

••mpenento				
Chemical name	CAS-No.	Classification	Concentration	
	EC-No.		(% w/w)	
	Index-No.		. ,	
	Registration number			
n-butyl acetate	123-86-4	Flam. Liq. 3; H226	>= 25 - <= 50	
	204-658-1	STOT SE 3; H336		
	607-025-00-1	(Central nervous		
	01-2119485493-29	system)		
		EUH066		

according to Regulation (EC) No. 1907/2006



ersion .0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.201 Date of first issue: 10.09.201	
Hexar oligom	nethylene diisocyanate, ners	28182-81-2 500-060-2 01-21194889	Acute Tox. 4; H332 Skin Sens. 1; H317 34-20 STOT SE 3; H335 <u>(Respiratory system</u>)	>= 10 - <= 25
			Acute toxicity esti- mate	
			Acute inhalation tox- icity: 1.5 mg/l 11 mg/l	
aroma	atic polyisocyanate	53317-61-6 500-120-8	Eye Irrit. 2; H319 <u>Skin Sens. 1B; H31</u> 7	>= 10 - <= 25
			specific concentration limit	
			Skin Sens. 1B 1 %	
			Acute toxicity esti- mate	
			Acute oral toxicity: > 2,000 mg/kg Acute inhalation tox-	
			icity: > 5 mg/l Acute dermal toxicity: > 2,000 mg/kg	
2-met	hoxy-1-methylethyl aceta	ate 108-65-6 203-603-9 607-195-00-7 01-21194757	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous 91-29 system)	>= 5 - <= 15
React and xy	ion mass of ethylbenzer ylene	e Not Assigned 905-588-0 01-21194861 01-21194882	Acute Tox. 4; H332 36-34, Acute Tox. 4; H312	>= 1 - <= 5
			(Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	
4-isoc	yanatosulphonyltoluene	4083-64-1 223-810-8 615-012-00-7 01-21199800	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334	>= 0.1 - < 0.5
			specific concentration limit Eye Irrit. 2; H319 >= 5 %	

VOSSCHEMIE

according to Regulation (EC) No. 1907/2006

Carsystem 2K HARDENER VARIO

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
			STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 %
m-toly	/lidene diisocyanate	26471-62-5 247-722-4 615-006-00-4 01-21194547	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1	Description	of	first	aid	measures
-----	-------------	----	-------	-----	----------

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Show this safety data sheet to the doctor in attendance.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
		First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respira- tion. Call a physician immediately.
In case of skin contact	:	Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

according to Regulation (EC) No. 1907/2006



Version 2.0 GB / EN		evision Date: .06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
		Keep eye wide o If easy to do, rem Consult a physic	ove contact lens, if worn.
If swallowed	:	Rinse mouth with Do NOT induce v Call a physician i	omiting.
4.2 Most important symptoms ar	nd e	effects, both acut	e and delayed
Risks	:	May cause an all Causes serious e Harmful if inhaled May cause allerg ties if inhaled. May cause respin May cause drows	ergic skin reaction. eye irritation. I. y or asthma symptoms or breathing difficul-
4.3 Indication of any immediate	mec	dical attention an	d special treatment needed
Treatment	:	Treat symptomat Keep under med	ically. cal supervision for at least 48 hours.
SECTION 5: Firefighting meas	sur	es	Hazchem: •3Y
5.1 Extinguishing media			
Suitable extinguishing media	:	Carbon dioxide (Dry powder Sand	CO2)
Unsuitable extinguishing media	:	High volume wat Water spray jet	er jet
5.2 Special hazards arising from	the	e substance or mi	xture
Specific hazards during fire- fighting	:	fire/high tempera If the temperature due to the high v	e rises there is danger of the vessels bursting
Hazardous combustion prod- ucts	:	bustion	nposition products due to incomplete com- e, carbon dioxide and unburned hydrocar-
		Nitrogen oxides (Isocyanates	NOx)
5.3 Advice for firefighters		Nitrogen oxides (NOx)

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
Further information		 Collect contaminated fire extinguishing water separatel must not be discharged into drains. Fire residues and contaminated fire extinguishing wate be disposed of in accordance with local regulations. 	
SECTION	N 6: Accidental relea	se measures	
6.1 Perso	nal precautions, prote	ctive equipment an	d emergency procedures
Perso	onal precautions	Evacuate pers Ensure adequa Avoid contact	protective equipment. onnel to safe areas. ate ventilation, especially in confined areas. with skin, eyes and clothing. vapour formation use a respirator with an ap-
6.2 Enviro	onmental precautions		
Envir	onmental precautions		to surface water or sanitary sewer system. es should be advised if significant spillages tained.
6.3 Metho	ods and material for co	ontainment and clea	aning up
	ods for cleaning up	: Soak up with in acid binder, ur Sweep up and After approxim do not seal, du	hert absorbent material (e.g. sand, silica gel, niversal binder, sawdust). shovel into suitable containers for disposal. ately one hour, transfer to waste container and le to evolution of carbon dioxide. OT be included in a tight way.
	ence to other sections		onsiderations see section 13.
		, ,	

7.1 Precautions for safe handling

Local/Total ventilation	: Use only with adequate ventilation.	
Advice on safe handling	 Avoid exposure - obtain special instructions before use. All processes must be supervised by specialists or author personnel. Provide sufficient air exchange and/or exhaust in work rockeep container closed when not in use. Wear personal protective equipment. Avoid formation of aerosol. Do not breathe vapours, aerosols. Persons allergic to isocyanates, and particularly those suring from asthma or other respiratory conditions, should n work with isocyanates. 	ooms. uffer-

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Ver 2.0	rsion GB / EN		evision Date: .06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019	
	Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. Take measure to prevent the build up of electrostatic charge. Vapours may form explosive mixture with air.		
	Hygiene measures	:	General industrial hygiene practice. Persons already sensi- tised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Take off all contaminated clothing immedi- ately. Wash contaminated clothing before re-use.		
7.2	Conditions for safe storage,	incl	luding any incom	patibilities	
	Requirements for storage areas and containers	:	Store in original c dry, cool and well	ontainer. Keep containers tightly closed in a -ventilated place.	
	Further information on stor- age conditions	:	Storage must be in accordance with the BetrSichV (German Keep locked up or in an area accessible only to qualified or authorised persons. Protect from moisture.		
	Advice on common storage	:	Keep away from the formation of the form	ood and drink. acids and bases.	
			Incompatible with	oxidizing agents.	
7.3	Specific end use(s)				
	Specific use(s)	:	No data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40		
		STEL	200 ppm 966 mg/m3	GB EH40		
		STEL	150 ppm 723 mg/m3	2019/1831/E U		
	Further inforn	Further information: Indicative				
		TWA	50 ppm 241 mg/m3	2019/1831/E U		
	Further inforn	Further information: Indicative				
Hexamethylene diisocyanate, oli- gomers	28182-81-2	TWA	0.02 mg/m3 (NCO)	GB EH40		
	Further inforn	Further information: Capable of causing occupational asthma.				
		STEL	0.07 mg/m3 (NCO)	GB EH40		



according to Regulation (EC) No. 1907/2006

Carsystem 2K HARDENER VARIO

sion GB / EN		sion Date: 6.2021	Date of last issue: 10.09.2 Date of first issue: 10.09.2		
	Further information: Capable of causing occupational asthma.				
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC	
	Further inforn skin, Indicativ		s the possibility of significant	uptake through the	
		TWA	50 ppm 275 mg/m3	2000/39/EC	
	Further inforn skin, Indicativ		s the possibility of significant	uptake through the	
		TWA	50 ppm 274 mg/m3	GB EH40	
		nose for which	absorbed through the skin. There are concerns that derma		
		STEL	100 ppm 548 mg/m3	GB EH40	
	Further information: Can be absorbed through the skin. The assigne stances are those for which there are concerns that dermal absorption lead to systemic toxicity.				
4- isocyanatosulpho- nyltoluene	4083-64-1	TWA	0.02 mg/m3 (NCO)	GB EH40	
-	Further inforn	nation: Capable	e of causing occupational asth	nma.	
		STEL	0.07 mg/m3 (NCO)	GB EH40	
	Further information: Capable of causing occupational asthma.				
m-tolylidene diiso- cyanate	26471-62-5	TWA	0.02 mg/m3 (NCO)	GB EH40	
	Further inforn	nation: Capable	e of causing occupational asth	nma.	
		STEL	0.07 mg/m3 (NCO)	GB EH40	
	Further inforn	nation: Capable	e of causing occupational asth	nma.	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Hexamethylene diisocya- nate, oligomers	28182-81-2	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
4- isocyanatosulphonyltolu- ene	4083-64-1	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
m-tolylidene diisocyanate	26471-62-5	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

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



according to Regulation (EC) No. 1907/2006

Carsystem 2K HARDENER VARIO

sion GB / EN	Revision 15.06.20		f last issue: 10.09.2019 f first issue: 10.09.2019	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
Hexamethylene diiso- cyanate, oligomers	Workers	Inhalation	Long-term local ef- fects	0.5 mg/m3
	Workers	Inhalation	Acute local effects	1 mg/m3
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg
	Consumers	Oral	Long-term systemic effects	36 mg/kg
4- isocyanatosulpho- nyltoluene	Workers	Inhalation	Long-term systemic effects	3.24 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.8 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.46 mg/kg
	Consumers	Oral	Long-term systemic effects	0.46 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Fresh water sediment	0.981 mg/kg dry weight (d.w.)
	Marine sediment	0.098 mg/kg dry weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry weight (d.w.)
Hexamethylene diisocyanate, oligomers	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10 Date of first issue: 10	
1		Sewage treat	ment plant	100 mg/l
		Fresh water s	sediment	2530 mg/kg
		Marine sedim	ent	253 mg/kg

	Fresh water sediment	2530 mg/kg
	Marine sediment	253 mg/kg
	Soil	505 mg/kg
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.064 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3.29 mg/kg
	Marine sediment	0.329 mg/kg
	Soil	0.29 mg/kg
4-isocyanatosulphonyltoluene	Fresh water	0.03 mg/l
	Marine water	0.003 mg/l
	Sewage treatment plant	0.4 mg/l
	Fresh water sediment	0.172 mg/kg
	Marine sediment	0.017 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166
Hand protection Material	:	Nitrile rubber
Material	:	butyl-rubber
Material Break through time Glove thickness Directive Protective index	:	Fluorinated rubber > 480 min >= 0.7 mm DIN EN 374 Class 6
Remarks	:	Gloves should be discarded and replaced if there is any indi- cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Skin and body protection	:	Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres. Long sleeved clothing
Respiratory protection	:	In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respi- rator. Apply technical measures to comply with the occupational exposure limits. Equipment should conform to EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

according to Regulation (EC) No. 1907/2006



Version 2.0 GB / EN	Revision Date:Date of last issue: 10.09.201915.06.2021Date of first issue: 10.09.2019
Protective measures	 Ensure that eye flushing systems and safety showers are located close to the working place. Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure co	
Soil	: Avoid subsoil penetration.
SECTION 9: Physical and che	mical properties
9.1 Information on basic physica	
Physical state	: liquid
Colour	: colourless
Odour	: characteristic
Odour Threshold	: not determined
Melting point/range	: not determined
Boiling point/boiling range	: 124 °C
Upper explosion limit / Upper flammability limit	: Upper explosion limit 15 %(V)
Lower explosion limit / Lower flammability limit	: Lower explosion limit 1.0 %(V)
Flash point	: 24 °C
рН	: Not applicable substance/mixture reacts with water
Viscosity Viscosity, kinematic	: not determined
Solubility(ies) Water solubility	: Reacts with water.
Vapour pressure	: 10.7 hPa (20 °C)
Density	: 1.0 g/cm3 (20 °C)
9.2 Other information	
Explosives	: Not explosive In use, may form flammable/explosive vapour-air mixture.

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions

: Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure

and produces a risk of bursting.

10.4 Conditions to avoid

Conditions to avoid : Avoid moisture.

10.5 Incompatible materials

Materials to avoid : Amines Alcohols Acids and bases

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx) Isocyanates

Water

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if inhaled.		
Product:		
Acute inhalation toxicity	:	Acute toxicity estimate: < 20 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
n-butyl acetate:		
Acute oral toxicity	:	LD50 (Rat): 10,760 mg/kg
Acute inhalation toxicity	:	LD50 (Rat): > 21 mg/l Exposure time: 4 h

according to Regulation (EC) No. 1907/2006



Version 2.0 GB / EN	-	ision Date: 06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
		Test atmosphere: Method: OECD Te	
Hexamethylene	diisocyanate, oli	gomers:	
Acute oral toxicit		LD50 Oral (Rat): > Method: OECD Te	
Acute inhalation	-	Acute toxicity estin Exposure time: 4 h Test atmosphere: Method: Expert juc	n dust/mist
	-	LC50 (Rat): 0.39 n Exposure time: 4 h Test atmosphere: Method: OECD Te	า dust/mist
	-	Acute toxicity estin Exposure time: 4 h Test atmosphere: Method: Expert jud	vapour
Acute dermal to	2	LD50 Dermal (Rat Method: OECD Te	,
aromatic polyis	ocyanate:		
Acute oral toxicit	-		nate: > 2,000 mg/kg icity estimate according to Regulation (EC)
Acute inhalation		Acute toxicity estin Exposure time: 4 h Test atmosphere: Method: Acute tox No. 1272/2008	1
Acute dermal to	-		nate: > 2,000 mg/kg icity estimate according to Regulation (EC)
2-methoxy-1-me	ethylethyl acetate	:	
Acute oral toxicit		LD50 Oral (Rat): 6 Method: OECD Te	
Acute inhalation		LC0 (Rat): > 1883 Exposure time: 4 h Test atmosphere: Method: OECD Te Assessment: The tion toxicity	vapour
Acute dermal tox	kicity :	LD50 Dermal (Rat	bbit): > 5,000 mg/kg

according to Regulation (EC) No. 1907/2006



rsion)	GB / EN	Revisio 15.06.2	on Date: 2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
		Me	thod: OECD	Test Guideline 402
Reac	tion mass of ethylbe	nzene and	l xylene:	
Acute	e oral toxicity): 3,523 - 4,000 mg/kg rective 92/69/EEC B.1 Acute Toxicity (Oral)
Acute	inhalation toxicity	Exp Tes	oosure time: st atmosphe	
Acute	e dermal toxicity	: LD	50 Dermal (Rabbit): 12,126 mg/kg
4-iso	cyanatosulphonyltol	uene:		
Acute	oral toxicity): 2,330 mg/kg Test Guideline 401
Acute	e dermal toxicity			Rat): > 2,000 mg/kg Test Guideline 402
m-tol	ylidene diisocyanate	:		
Acute	oral toxicity): 5,110 mg/kg Test Guideline 401
Acute	inhalation toxicity	Exp Tes	50: 66 ppm posure time: st atmosphe thod: OECD	
Acute	e dermal toxicity		,	Rabbit): > 9,400 mg/kg Test Guideline 402
Skin	corrosion/irritation			
Repe	ated exposure may ca	use skin d	ryness or cr	acking.
<u>Com</u>	ponents:			
Hexa	methylene diisocyan	ate, oligo	mers:	
Speci Asses Metho	ssment	: No	obit skin irritatio CD Test Gu	
Reac	tion mass of ethylbe	nzene and	l xylene:	
Resu	lt	: Ski	n irritation	
m-tol	ylidene diisocyanate	:		
Resu			n irritation	

according to Regulation (EC) No. 1907/2006



.	15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
Serious eye damage/eye i	rritation	
Causes serious eye irritatio	n.	
Components:		
Hexamethylene diisocyan	ate, oligomers:	
Species	: Rabbit	
Assessment	: No eye irritatior	
Method	: OECD Test Gu	ideline 405
aromatic polyisocyanate:		
Result	: Moderate eye i	rritation
	,	
Reaction mass of ethylbe	nzene and xylene:	
Result	: Moderate eye i	rritation
m-tolylidene diisocyanate		
Result		damage to eyes.
Respiratory or skin sensit	tisation	
Skin sensitisation		
May cause an allergic skin	reaction.	
	reaction.	
Respiratory sensitisation		ing difficulties if inhaled.
Respiratory sensitisation May cause allergy or asthm		ing difficulties if inhaled.
Respiratory sensitisation May cause allergy or asthm <u>Components:</u>	a symptoms or breath	ing difficulties if inhaled.
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan	a symptoms or breath ate, oligomers:	
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type	a symptoms or breath ate, oligomers: : Local lymph no	ing difficulties if inhaled. de assay (LLNA)
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type Exposure routes	a symptoms or breath ate, oligomers:	
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type Exposure routes Species Assessment	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm Components: Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm Components: Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method Result	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm Components: Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method Result aromatic polyisocyanate:	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu : positive : Skin contact	de assay (LLNA) sitisation by skin contact.
Respiratory sensitisation May cause allergy or asthm Components: Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method Result aromatic polyisocyanate: Exposure routes Assessment	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu : positive : Skin contact : The product is :	de assay (LLNA) sitisation by skin contact. ideline 429
Respiratory sensitisation May cause allergy or asthm <u>Components:</u> Hexamethylene diisocyan Test Type Exposure routes Species Assessment Method Result aromatic polyisocyanate: Exposure routes	a symptoms or breath ate, oligomers: : Local lymph no : Skin contact : Mouse : May cause sen : OECD Test Gu : positive : Skin contact : The product is a	de assay (LLNA) sitisation by skin contact. ideline 429

according to Regulation (EC) No. 1907/2006



Versi 2.0	on	GB / EN		evision Date: 5.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
<u>(</u>	Compo	onents:			
ł	Hexam	ethylene diisocyanat	e, c	oligomers:	
		exicity in vitro	:	Test Type: Microb Metabolic activatio Method: OECD Te	ial mutagenesis assay (Ames test) on: with and without metabolic activation est Guideline 471 enic in Ames Test
(Carcin	ogenicity			
1	Not cla	ssified based on availa	ble	information.	
<u>(</u>	Compo	onents:			
(-	lidene diisocyanate: ogenicity - Assess-	:	Limited evidence	of a carcinogenic effect.
	-	ductive toxicity ssified based on availa	ble	information.	
ſ	May ca	• single exposure use respiratory irritatio use drowsiness or dizz		SS.	
<u>q</u>	Compo	onents:			
I	Hexam	ethylene diisocyanat	e, c	oligomers:	
	Exposu Assess	ire routes ment	:	Inhalation May cause respira	atory irritation.
2	2-meth	oxy-1-methylethyl ac	eta	te:	
		ire routes	:	Oral	
	l arget Assess	Organs ment	:	Central nervous s May cause drows	
F	Reactio	on mass of ethylbenz	ene	and xylene:	
	Assess	-	:	May cause respira	tory irritation.
r	m-tolyl	lidene diisocyanate:			
	Assess		:	May cause respira	tory irritation.
		• repeated exposure ssified based on availa	ble	information.	
<u>(</u>	Compo	onents:			
	Reactio Assess	on mass of ethylbenz ment	ene :	-	e to organs through prolonged or repeated

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version		Revision Date:	Date of last issue: 10.09.2019
2.0	GB / EN	15.06.2021	Date of first issue: 10.09.2019

Repeated dose toxicity

Components:

Hexamethylene diisocyanate, oligomers:

Species	:	Rat, male and female
NOAEL	:	0.0033 mg/l
Application Route	:	Inhalation
Test atmosphere	:	dust/mist
Exposure time	:	90d
Number of exposures	:	6h / d
Dose		0 - 0,0005 - 0,003 - 0,0264
Method	:	OECD Test Guideline 413

2

Aspiration toxicity

Not classified based on available information.

Components:

Reaction mass of ethylbenzene and xylene:

May be fatal if swallowed and enters airways.

m-tolylidene diisocyanate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hexamethylene diisocyanate, oligomers:

Toxicity to fish : LC0 (Danio rerio (zebra fish)): >= 100 mg/l

according to Regulation (EC) No. 1907/2006



Revision Date:Date of last issue: 10.09.201915.06.2021Date of first issue: 10.09.2019
End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203
 EC0 (Daphnia magna (Water flea)): >= 100 mg/l End point: Immobilization Exposure time: 48 h Method: OECD Test Guideline 202
 NOEC (Desmodesmus subspicatus (green algae)): 50 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201
etate:
: LC50 (Oncorhynchus mykiss (rainbow trout)): 100 - 180 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203
 EC50 (Daphnia magna (Water flea)): > 500 mg/l End point: Immobilization Exposure time: 48 h Method: Regulation (EC) No. 440/2008, Annex, C.2
 EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l End point: Growth rate Exposure time: 96 h Method: OECD Test Guideline 201
: NOEC: 47.5 mg/l Exposure time: 14 d Species: Oryzias latipes (Orange-red killifish) Method: OECD Test Guideline 204
 NOEC: >= 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
ene and xylene:
: LC50 (Fish): 2.6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
: LC50 (Daphnia dubia (water flea)): 1 mg/l Exposure time: 24 h Method: OECD Test Guideline 202
EC50 (Daphnia dubia (water flea)): 165 mg/l Exposure time: 24 h

according to Regulation (EC) No. 1907/2006

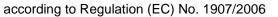
VOSSCHEMIE

Versi 2.0	on GB / EN			vision Date: 06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
	Toxicity to algae/ plants	aquatic	:	EC50 (algae): 2.2 Exposure time: 72 Method: OECD Te	2 h
				IC50 (algae): 1 - 1 Exposure time: 72	
-	Toxicity to microo	organisms	:	EC50 (Bacteria): 1	1 - 10 mg/l
	Ecotoxicology A	Assessment			
	Chronic aquatic t		:	This product has r	no known ecotoxicological effects.
4	4-isocyanatosul	phonyltoluen	e:		
-	Toxicity to fish		:	LC50 (Oncorhync) End point: mortalit Exposure time: 96 Method: OECD Te	ĥ
	Toxicity to daphn aquatic invertebra		:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to algae/ plants	aquatic	:	EC50 (Pseudokirc End point: Growth Exposure time: 72 Method: OECD Te	h .
1	Ecotoxicology A	Assessment			
	Chronic aquatic t		:	This product has r	no known ecotoxicological effects.
I	m-tolylidene dii	socyanate:			
-	Toxicity to fish		:	LC50 (Oncorhync) Exposure time: 96 Method: OECD Te	
	Toxicity to daphn aquatic invertebra		:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
1	Ecotoxicology A	Assessment			
	Chronic aquatic t		:	Harmful to aquation	life with long lasting effects.
12.2	Persistence and	degradability	y		
<u>(</u>	Components:				
I	Hexamethylene	diisocyanate,	, o l	igomers:	
I	Biodegradability		:	Result: Not rapidly Biodegradation: 2 Exposure time: 28	2 %

according to Regulation (EC) No. 1907/2006



Versi 2.0	ion	GB / EN		evision Date: 5.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
				Method: Regulati	ion (EC) No. 440/2008, Annex, C.4-E
	2-meth	noxy-1-methylethyl ac	ceta	te:	
		ıradability	:	Biodegradation: Exposure time: 2	
	4-isoc	yanatosulphonyltolue	ene	:	
		radability	:	Biodegradation: Exposure time: 2	
	-	lidene diisocyanate: Jradability	:	Result: Not readi	ly biodegradable.
12.3	Bioac	cumulative potential			
	Comp	onents:			
	Hexan	nethylene diisocyana	te, c	oligomers:	
	Bioacc	umulation	:	Bioconcentration	factor (BCF): 706
	Partitic octano	on coefficient: n- I/water	:	log Pow: 8.38	
	2-meth	noxy-1-methylethyl ac	ceta	te:	
		on coefficient: n- I/water	:	log Pow: 1.2 (20 pH: 6.8	°C)
	Reacti	on mass of ethylbenz	zene	e and xylene:	
		on coefficient: n- I/water	:	log Pow: 3.2 (20	°C)
	4-isoc	yanatosulphonyltolue	ene	:	
		on coefficient: n- I/water	:	log Pow: 0.6	
	m-toly	lidene diisocyanate:			
	Partitio	on coefficient: n- I/water	:	log Pow: 3.43 (22 pH: 7	2 °C)
		ty in soil a available			
		ts of PBT and vPvB a	sse	ssment	
	Produ				
	Assess		:	This substance/n	nixture contains no components considered





Carsystem 2K HARDENER VARIO

Version 2.0	GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019
			ersistent, bioaccumulative and toxic (PBT), or it and very bioaccumulative (vPvB) at levels of r
12.6 Endo	ocrine disrupting prop	erties	
Prod	uct:		
Asse	ssment	ered to have e REACH Articl	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 5 or higher.
12.7 Othe	er adverse effects		
Prod	uct:		
Addit matic	ional ecological infor- on	: No data availa	able
SECTION	N 13: Disposal consi	iderations	
13.1 Wast	te treatment methods		
Produ	uct	Do not empty tainer at haza Dispose of in Dispose of wa	e of with domestic refuse. into drains, dispose of this material and its con- rdous or special waste collection point. accordance with local regulations. astes in an approved waste disposal facility. nsed waste management company.

Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Store containers and offer for recycling of material when in accordance with the local regulations. Packaging that is not properly emptied must be disposed of as the unused product. Dispose of in accordance with local regulations.
Waste Code	:	The following Waste Codes are only suggestions: 08 05 01, waste isocyanates

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1263
ADR	:	UN 1263
RID	:	UN 1263
IMDG	:	UN 1263

according to Regulation (EC) No. 1907/2006



Version 2.0 GB / EN		Date of last issue: 10.09.2019 Date of first issue: 10.09.2019		
	: UN 1263			
14.2 UN proper shipping name				
ADN	: PAINT RELATED MATERIAL			
ADR	: PAINT RELATED	MATERIAL		
RID	: PAINT RELATED	MATERIAL		
IMDG	: PAINT RELATED	MATERIAL		
ΙΑΤΑ	: Paint related mate	Paint related material		
14.3 Transport hazard class(es)				
ADN	: 3			
ADR	: 3			
RID	: 3			
IMDG	: 3			
ΙΑΤΑ	: 3			
14.4 Packing group				
ADN Packing group Classification Code Hazard Identification Number Labels ADR Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 30 : 3 : III : F1 : 30 : 3			
Tunnel restriction code RID Packing group Classification Code Hazard Identification Number Labels	: (D/E) : III : F1 : 30 : 3			
IMDG Packing group Labels EmS Code	: III : 3 : F-E, <u>S-E</u>			
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 366 : Y344 : III : Class 3 - Flammab	ble liquids		
IATA (Passenger) Packing instruction (passen- ger aircraft)	: 355	-		

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Ver 2.0	sion GB / EN	Revision Date: 15.06.2021	Date of last issue: 10.09.2019 Date of first issue: 10.09.2019	
14.	Packing instruction (LQ) Packing group Labels 5 Environmental hazards	: Y344 : III : Class 3 - Flam	mable liquids	
	ADN Environmentally hazardous	: no		
	ADR Environmentally hazardous	: no		
	RID Environmentally hazardous	: no		
	IMDG Marine pollutant	: no	Hazchem	1: •3Y

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

lure		
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Seveso III: Directive 2012/18/EU of the Euro-P5c pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	FL/	AMMABLE LIQUIDS

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,

according to Regulation (EC) No. 1907/2006

Carsystem 2K HARDENER VARIO

Version		Revision Date:	Date of last issue: 10.09.2019
2.0	GB / EN	15.06.2021	Date of first issue: 10.09.2019

where applicable.

2019/1831/EU

GB EH40 BAT

2000/39/EC / TWA

2000/39/EC / STEL

GB EH40 / TWA

GB EH40 / STEL

2019/1831/EU / TWA

2019/1831/EU / STEL

GB EH40

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Stateme	its
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 difficul- ties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.
H373	: May cause damage to organs through prolonged or repeated exposure.
H412	: Harmful to aquatic life with long lasting effects.
EUH014	: Reacts violently with water.
EUH066	: Repeated exposure may cause skin dryness or cracking.
Full text of other abbr	viations
Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first

:

:

2

:

:

:

:

:

:

Limit Value - eight hours

Short term exposure limit

Limit Value - eight hours

Short term exposure limit

list of indicative occupational exposure limit values

UK. EH40 WEL - Workplace Exposure Limits

UK. Biological monitoring guidance values

Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

Long-term exposure limit (8-hour TWA reference period)

Short-term exposure limit (15-minute reference period)

according to Regulation (EC) No. 1907/2006



Carsystem 2K HARDENER VARIO

Version		Revision Date:	Date of last issue: 10.09.2019
2.0	GB / EN	15.06.2021	Date of first issue: 10.09.2019

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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Training advice

Provide adequate information, instruction and training for operators.

Provide adequate information, instruction and training for operators.

. . .

Classification of the	mixture:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Expert judgement and weight of evi- dence determination.
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method



according to Regulation (EC) No. 1907/2006

Carsystem 2K HARDENER VARIO

Version		Revision Date:	Date of last issue: 10.09.2019
2.0	GB / EN	15.06.2021	Date of first issue: 10.09.2019

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