according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

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

1.1 Product identifier

Trade name Carsystem 2K Clear VOC HS/SR

Product code 153.774 (151.909)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-

stance/Mixture

: Paints

Recommended restrictions

on use

: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH

> Esinger Steinweg 50 25436 Uetersen

Germany

info@vosschemie.de

Telephone : 04122 717 0 Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0

sds@vosschemie.de

1.4 Emergency telephone number

Telephone : POISONS INFORMATION CENTRE

Australia

13 11 26

1.5 Details of the supplier/importer

Company Sydney Automotive Paints and Equipment

Unit A3, 366 Edgar Street

Condell Park, 2200

reception@sape.com.au

Telephone : 02 9772 9000 Telefax : 02 9772 9001

Responsible Department : Marketing

02 9772 9000

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Date of last issue: -Revision Date:

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

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.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single ex-

posure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word Warning

Hazard statements Flammable liquid and vapour. H226

P260

Causes skin irritation. H315

May cause an allergic skin reaction. H317 H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or

repeated exposure.

Harmful to aquatic life with long lasting effects. H412

Precautionary statements Prevention:

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

Do not breathe mist or vapours.

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

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

Disposal:

P501 Dispose of contents/container to an approved facility in

accordance with local, regional, national and interna-

tional regulations.

Hazardous components which must be listed on the label:

n-butyl acetate

xylene

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-

pentamethyl-4-piperidyl sebacate

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
n-butyl acetate	123-86-4	Flam. Liq. 3; H226	>= 10 - < 20
	204-658-1	STOT SE 3; H336	
	607-025-00-1		
	01-2119485493-29		
xylene	1330-20-7	Flam. Liq. 3; H226	>= 5 - < 15
	215-535-7	Acute Tox. 4; H332	
	601-022-00-9	Acute Tox. 4; H312	
	01-2119488216-32	Skin Irrit. 2; H315	
		Eye Irrit. 2; H319	
		STOT SE 3; H335	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
2-methoxy-1-methylethyl acetate	108-65-6	Flam. Liq. 3; H226	>= 2.5 - < 10
	203-603-9	STOT SE 3; H336	
	607-195-00-7		
	01-2119475791-29		
Hydrocarbons, C9, Aromatics	64742-95-6	Flam. Liq. 3; H226	>= 2.5 - < 10
	918-668-5	STOT SE 3; H336	
	01-2119455851-35	STOT SE 3; H335	

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

		Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 2.5 - < 10
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	>= 1 - < 5
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Not Assigned 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.5

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.

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

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.

Keep eye wide open while rinsing.

If easy to do, remove contact lens, if worn.

Consult a physician.

If swallowed : Do NOT induce vomiting.

Call a physician immediately.

according to Regulation (EC) No. 1907/2006



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Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated

exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Water spray jet Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

Hazardous combustion prod: :

ucts

Hazardous decomposition products due to incomplete com-

bustion

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB / EN 19.08.2019 Date of first issue: 19.08.2019

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition.

Do not smoke.

Avoid contact with skin, eyes and clothing.

In the case of vapour formation use a respirator with an ap-

proved filter.

6.2 Environmental precautions

Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep container closed when not in use.

Provide sufficient air exchange and/or exhaust in work rooms.

Wear personal protective equipment.

Advice on protection against

fire and explosion

Vapours may form explosive mixtures with air.

Keep away from open flames, hot surfaces and sources of

ignition. Do not smoke.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Further information on stor-

age conditions

Keep away from heat and sources of ignition.

Protect from moisture.

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Keep away from direct sunlight.

Advice on common storage : Keep away from food and drink.

Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

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

n-butyl acetate	123-86-4	of exposure)		
		TWA	150 ppm 724 mg/m3	GB EH40
		STEL	200 ppm 966 mg/m3	GB EH40
xylene	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
Further information			. The assigned substances a mal absorption will lead to sy	
		TWA	50 ppm 220 mg/m3	GB EH40
Further information		re concerns that derr	. The assigned substances a mal absorption will lead to sy	stemic toxicity.
		TWA	50 ppm 221 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
Further information			ant uptake through the skin, I	
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	
		TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 274 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
ethylbenzene	100-41-4	TWA	100 ppm	2000/39/EC

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

			442 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm	2000/39/EC
			884 mg/m3	
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		TWA	100 ppm	GB EH40
			441 mg/m3	
Further information			. The assigned substances a	
	which there a		mal absorption will lead to sy	
		STEL	125 ppm	GB EH40
			552 mg/m3	
Further information	Can be absorbed through the skin. The assigned substances are those for			
	which there a	re concerns that deri	mal absorption will lead to sy	stemic toxicity.
2-butoxyethyl ace-	112-07-2	TWA	20 ppm	2000/39/EC
tate			133 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm	2000/39/EC
			333 mg/m3	
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	20 ppm	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for			
	which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	50 ppm	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for			
	which there are concerns that dermal absorption will lead to systemic toxicity.			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole Creat- inine (Urine)	After shift	GB EH40 BAT

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

Substance name	End Use	Exposure routes	Potential health effects	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
xylene	Workers	Inhalation	Acute systemic effects	289 mg/m3
	Workers	Inhalation	Acute local effects	289 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg
	Workers	Inhalation	Long-term systemic	77 mg/m3

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

			effects	
	Consumers	Inhalation	Acute systemic ef- fects	174 mg/m3
	Consumers	Inhalation	Acute local effects	174 mg/m3
	Consumers	Skin contact	Long-term systemic effects	108 mg/kg
	Consumers	Inhalation	Long-term systemic effects	14.8 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
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate	Workers	Inhalation	Long-term systemic effects	0.68 mg/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.17 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.05 mg/kg bw/day

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.)
xylene	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Fresh water sediment	12.46 mg/l
	Marine sediment	12.46 mg/l
	Soil	2.31 mg/l
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

	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
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Fresh water	0.002 mg/l
	Fresh water sediment	1.05 mg/kg dry weight (d.w.)
	Marine sediment	0.11 mg/kg dry weight (d.w.)
	Soil	0.21 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : butyl-rubber

Material : Fluorinated rubber

Material : PVA

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : >= 0.7 mm

Directive : DIN EN 374

Protective index : 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 protec-

tive 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.

Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational

exposure limits.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Filter type : Combined particulates and organic vapour type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are

located close to the working place. Avoid contact with the skin and the eyes. Use only with adequate ventilation.

Environmental exposure controls

Soil : Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : not determined

pH : Not applicable

Melting point/range : not determined

Boiling point/boiling range : 124 °C

Flash point : > 23 °C

Upper explosion limit / Upper

flammability limit

Upper explosion limit

15 %(V)

Lower explosion limit / Lower

flammability limit

Lower explosion limit

0.7 %(V)

Vapour pressure : 10.7 hPa (20 °C)

Density : 0.97 - 0.99 g/cm3 (20 °C)

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

: not determined

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Ignition temperature : not determined

Viscosity

Viscosity, dynamic : 127 mPa.s (20 °C)

Viscosity, kinematic : not determined

9.2 Other information

No data available

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 : Incompatible with strong acids and bases.

Reaction with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

Strong oxidizing agents

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).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Components:

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10,760 mg/kg

xylene:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

LC50 (Rat): 21.7 mg/l Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Expert judgement

LD50 (Rabbit): > 1,700 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 1883 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Method: OECD Test Guideline 402

Hydrocarbons, C9, Aromatics:

Acute oral toxicity : LD50 Oral (Rat, female): ca. 3,492 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.193 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3,160 mg/kg

Method: OECD Test Guideline 402

ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

2-butoxyethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 1,880 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 400 ppm

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): ca. 1,500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

xylene:

Result : Skin irritation

Hydrocarbons, C9, Aromatics:

Result : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

xylene:

Result : Moderate eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

pentamethyr-4-pipendyr sebacate.

Assessment : The product is a skin sensitiser, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C9, Aromatics:

Germ cell mutagenicity- As-

Classified based on benzene content < 0.1% (Regulation (EC)

sessment

1272/2008, Annex VI, Part 3, Note P)

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C9, Aromatics:

Carcinogenicity - Assess: Classified based on benzene content < 0.1% (Regulation (EC)

ment 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Components:

xylene:

Assessment : May cause respiratory irritation.

2-methoxy-1-methylethyl acetate:

Exposure routes : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

Hydrocarbons, C9, Aromatics:

Assessment : May cause respiratory irritation., May cause drowsiness or

dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

xylene:

Target Organs : Central nervous system, Liver, Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

ethylbenzene:

Target Organs : hearing organs

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Components:

xylene:

May be fatal if swallowed and enters airways.

Hydrocarbons, C9, Aromatics:

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Components:

xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.82 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2

mg/l

Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Bacteria): 157 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

NOEC: > 1.3 mg/l

Exposure time: 56 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.17 mg/l Exposure time: 7 d

Species: Daphnia dubia (water flea)

Method: Regulation (EC) No. 440/2008, Annex, C.20

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 100 - 180 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

End point: Immobilization Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

End point: Growth rate Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC: 47.5 mg/l Exposure time: 14 d

Species: Oryzias latipes (Orange-red killifish)

Method: OECD Test Guideline 204

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: >= 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Hydrocarbons, C9, Aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 3.2 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (green algae)): 1

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOELR: 1.228 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOELR: 2.144 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

ethylbenzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 4.6

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1 mg/l

Species: Ceriodaphnia dubia (water flea)

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

Toxicity to fish : LC50 (Fish): 0.97 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 20 mg/l

Exposure time: 24 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 1.68 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

. '

Toxicity to microorganisms : EC50 : > 100 mg/l

Exposure time: 3 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

xylene:

Biodegradability : Biodegradation: 87.8 %

Exposure time: 28 d

Method: OECD Test Guideline 301

2-methoxy-1-methylethyl acetate:

Biodegradability : Biodegradation: 90 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

Hydrocarbons, C9, Aromatics:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301F

ethylbenzene:

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

Biodegradability Result: rapidly degradable

> Biodegradation: 79 % Exposure time: 10 d

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate:

Biodegradability Biodegradation: 38 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

xylene:

Bioaccumulation Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 25.9

Partition coefficient: n-

octanol/water

log Pow: 3.16 (20 °C)

2-methoxy-1-methylethyl acetate:

Partition coefficient: nlog Pow: 1.2 (20 °C)

octanol/water pH: 6.8

ethylbenzene:

Partition coefficient: n-

octanol/water

log Pow: 3.6 (20 °C)

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate:

Bioaccumulation Bioconcentration factor (BCF): < 9.7

12.4 Mobility in soil

Components:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate:

Distribution among environ- : log Koc: 5.31

mental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment 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...

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

12.6 Other adverse effects

Product:

Additional ecological infor- : No data available

mation

Components:

xylene:

Additional ecological infor-

mation

: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Do not dispose of with domestic refuse.

Do not empty into drains, dispose of this material and its con-

tainer at hazardous or special waste collection point. Dispose of in accordance with local regulations. Send to a licensed 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 01 11, waste paint and varnish containing organic solvents

or other hazardous substances

SECTION 14: Transport information

14.1 UN number

ADN UN 1263 **ADR** UN 1263 RID UN 1263 **IMDG** UN 1263 **IATA** UN 1263

14.2 UN proper shipping name

ADN PAINT ADR PAINT RID PAINT

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADN

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Class 3 - Flammable liquids

IATA (Passenger)

Packing instruction (passen: 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Class 3 - Flammable liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no Hazchem: •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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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 de-

plete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

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 following entries should be considered: Number on list 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

34 Petroleum products: (a)

gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environ-

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

mental hazards as the products referred to in points (a) to (d)

Other regulations:

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

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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-Statements

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

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.

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.
 H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
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

list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values

2000/39/EC / TWA : Limit Value - eight hours

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Revision Date: Date of last issue: -Version

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

2000/39/EC / STEL Short term exposure limit

Long-term exposure limit (8-hour TWA reference period) GB EH40 / TWA GB EH40 / STEL Short-term exposure limit (15-minute reference period)

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; AICS - Australian Inventory of Chemical Substances; 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

Classification procedure: Flam. Liq. 3 H226 Based on product data or assessment Skin Irrit. 2 H315 Calculation method Eye Irrit. 2 H319 Calculation method Skin Sens. 1 H317 Calculation method STOT SE 3 H336 Calculation method STOT SE 3 H335 Calculation method STOT RE 2 H373 Calculation method Aquatic Chronic 3 H412 Calculation method

according to Regulation (EC) No. 1907/2006



Carsystem 2K Clear VOC HS/SR

Version Revision Date: Date of last issue: -

1.0 GB/EN 19.08.2019 Date of first issue: 19.08.2019

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