according to Regulation (EC) No. 1907/2006

## Carsystem 2K Filler VOC 540 grey

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1.1 DE / EN 13.10.2023 Date of first issue: 20.07.2022

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

1.1 Product identifier

Trade name : Carsystem 2K Filler VOC 540 grey

Product code : 144.026

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

Use of the Sub- : Paints

stance/Mixture Body filler/stopper

Recommended restrictions : Reserved for industrial and professional use.

on use Industrial use, professional use

1.3 Details of the supplier of the safety data sheet

Company : JASA AG

Müslistrasse 43 8957 Spreitenbach

Schweiz

info@jasa-ag.ch, www.jasa-ag.ch

Telephone : +41 (0)44 431 60 70 Telefax : +41 (0)44 432 63 17

Responsible Department : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

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#### **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 vapor.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye 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

#### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P260 Do not breathe mist or vapors.

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

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regu-

lations.

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#### Hazardous ingredients which must be listed on the label:

reaction mass of ethylbenzene and m-xylene and p-xylene

#### **Additional Labeling**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

#### 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**

#### 3.2 Mixtures

Chemical nature : Mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
reaction mass of ethylbenzene and m-xylene and p-xylene	Not Assigned 905-562-9 01-2119555267-33	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304  specific concentration limit STOT RE 2 >= 10 %	>= 5 - <= 15
titanium dioxide; [in powder form	13463-67-7	Carc. 2; H351	>= 5 - <= 15
containing 1 % or more of parti-	236-675-5 022-006-00-2		
cles with aerodynamic diameter ≤ 10 µm]	01-2119489379-17		
xylene	1330-20-7	Flam. Liq. 3; H226	>= 1 - <= 7,5

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	215-535-7 601-022-00-9 01-2119488216-32	Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system, Liver, Kidney) Asp. Tox. 1; H304 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute inhalation toxistic (special system)	
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	icity (vapor): 11 mg/l Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - <= 7,5
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - <= 7,5
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 1

For explanation of abbreviations see section 16.

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#### **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 material safety data sheet to the doctor in attend-

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-

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.

Do NOT induce vomiting. If swallowed

Call a physician immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Risks Causes skin irritation.

Causes serious eye irritation.

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

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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.

May form explosive mixtures in air.

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 fire-fighters

In the event of fire and/or explosion do not breathe fumes. 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.

In the event of fire and/or explosion do not breathe fumes.

#### **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 vapor 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.

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#### 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

Vapors 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

 $charge. \ Use \ explosion-proof \ equipment.$ 

Vapors are heavier than air and may spread along floors.

Hygiene measures : Avoid contact with skin, eyes and clothing. Take off all con-

taminated clothing immediately. Wash contaminated clothing

before re-use. Follow the skin protection plan.

#### 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. 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.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No data available

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	AGW (Inhalable fraction)	10 mg/m3 (Titanium dioxide)	DE TRGS 900
	Peak-limit cat	egory: 2;(II)		
	Further inform tolerance valu	es, there is no risk o	s compliance with the OEL ar of harming the unborn child	nd biological
		AGW (Alveolate fraction)	1,25 mg/m3 (Titanium dioxide)	DE TRGS 900
	Peak-limit cat	egory: 2;(II)		
			s compliance with the OEL ar of harming the unborn child	nd biological
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
	Further inform skin, Indicative		possibility of significant uptak	ke through the
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further inform skin, Indicative		possibility of significant uptak	ke through the
		AGW	50 ppm 220 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 2;(II)		•
	Further information: Skin absorption			
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 2;(I)	•	
			s compliance with the OEL are of harming the unborn child	nd biological
		STEL	150 ppm 723 mg/m3	2019/1831/E U
	Further inform	ation: Indicative	,	_
		TWA	50 ppm 241 mg/m3	2019/1831/E U
	Further inform	nation: Indicative	<u>. J</u>	1
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
	Further inform skin, Indicative		possibility of significant uptak	ke through the
		TWA	50 ppm 275 mg/m3	2000/39/EC

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Further information: Identifies the possibility of significant uptake through the skin, Indicative				
AGW 50 ppm DE TRGS 270 mg/m3 900				
Peak-limit category: 1;(I)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

#### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methylhippuric acid (all isomers): 2.000	Immediately after exposure or after	TRGS 903
		mg/l (Urine)	working hours	

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

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
xylene	Workers	Inhalation	Long-term systemic effects, Long-term local effects	221 mg/m3
	Workers	Inhalation	Acute systemic ef- fects, Acute local effects	442 mg/m3
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	65,3 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects, Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	12,5 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m3
	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Dermal	Long-term systemic effects, Acute systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m3
	Consumers	Inhalation	Acute systemic effects	300 mg/m3
	Consumers	Dermal	Long-term systemic effects, Acute systemic effects	6 mg/kg bw/day

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	Consumers	Oral	Long-term systemic effects, Acute systemic effects	2 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Consumers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg

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

Substance name	Environmental Compartment	Value
xylene	Fresh water	0,327 mg/l
	Sea water	0,327 mg/l
	Fresh water sediment	12,46 mg/kg dry
		weight (d.w.)
	Sea sediment	12,46 mg/kg dry
		weight (d.w.)
	Soil	2,31 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	6,58 mg/l
n-butyl acetate	Fresh water	0,18 mg/l
	Sea water	0,018 mg/l
	Fresh water sediment	0,981 mg/kg dry
		weight (d.w.)
	Sea sediment	0,098 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry
		weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Sea water	0,064 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	3,29 mg/kg dry
		weight (d.w.)
	Sea sediment	0,329 mg/kg dry
		weight (d.w.)
	Soil	0,29 mg/kg dry

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		weight (d.w.)
trizinc bis(orthophosphate)	Fresh water	0,014 mg/l
	Sea water	0,0072 mg/l
	Fresh water sediment	0,1469 mg/kg dry weight (d.w.)
	Sea sediment	0,162 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	0,1 mg/l
	Soil	83,1 mg/kg dry weight (d.w.)
zinc oxide	Fresh water	0,0206 mg/l
	Sea water	0,0061 mg/l
	Sewage treatment plant (STP)	0,1 mg/l
	Fresh water sediment	117,8 mg/kg
	Sea sediment	56,5 mg/kg
	Soil	35,6 mg/kg

#### 8.2 Exposure controls

Personal protective equipment

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

Hand protection

Material : Viton®

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 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. Preventive skin protection

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

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 vapor 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.

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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

Physical state : viscous liquid

Color : gray

Odor : characteristic

Melting point/freezing point : not determined

Initial boiling point and boiling

range

not determined

Upper explosion limit / Upper :

flammability limit

15 %(V)

Lower explosion limit / Lower :

flammability limit

1 %(V)

Flash point : > 23 °C

Autoignition temperature : not determined

pH : Not applicable substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

: not determined

Vapor pressure : 10,7 hPa (20 °C)

Density : 1,56 - 1,6 g/cm3 (20 °C)

9.2 Other information

Explosives : Not explosive

In use, may form flammable/explosive vapor-air mixture.

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Self-ignition : not auto-flammable

#### **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.

Avoid amines.

Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

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

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

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

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

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

#### **Components:**

#### reaction mass of ethylbenzene and m-xylene and p-xylene:

Acute oral toxicity : LD50 Oral (Rat): 3.523 - 4.000 mg/kg

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Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : LC50 (Rat, male): 6350 - 6700 ppm

Exposure time: 4 h
Test atmosphere: vapor

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

Acute dermal toxicity : LD50 Dermal (Rabbit): 12.126 mg/kg

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 6,82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

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

Exposure time: 4 h Test atmosphere: vapor Method: Expert judgment

Acute dermal toxicity : LD50 (Rabbit): > 1.700 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10.760 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg

Method: OECD Test Guideline 402

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6.190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : 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

trizinc bis(orthophosphate):

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Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

zinc oxide:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Skin corrosion/irritation

Causes skin irritation.

**Components:** 

reaction mass of ethylbenzene and m-xylene and p-xylene:

Result : Skin irritation

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic

diameter ≤ 10 µm]:

Remarks : No skin irritation

xylene:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

**Components:** 

reaction mass of ethylbenzene and m-xylene and p-xylene:

Result : Moderate eye irritation

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic

diameter ≤ 10 µm]:

Remarks : Dust contact with the eyes can lead to mechanical irritation.

xylene:

Result : Moderate eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

**Components:** 

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

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Remarks : No known sensitising effect.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

#### **Components:**

#### reaction mass of ethylbenzene and m-xylene and p-xylene:

Assessment : May cause respiratory irritation.

xylene:

Assessment : May cause respiratory irritation.

#### 2-methoxy-1-methylethyl acetate:

Routes of exposure : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Components:**

#### reaction mass of ethylbenzene and m-xylene and p-xylene:

Assessment : May cause damage to organs through prolonged or repeated

exposure.

xylene:

Target Organs : Central nervous system, Liver, Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

#### Aspiration toxicity

Not classified based on available information.

#### **Components:**

#### reaction mass of ethylbenzene and m-xylene and p-xylene:

May be fatal if swallowed and enters airways.

according to Regulation (EC) No. 1907/2006

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May be fatal if swallowed and enters airways.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

#### **Product:**

Assessment The substance/mixture does not contain components consid-

> ered 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 12: Ecological information**

### 12.1 Toxicity

#### Components:

reaction mass of ethylbenzene and m-xylene and p-xylene:

LC50 (Fish): 2,6 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

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

Toxicity to algae/aquatic

plants

EC50 (algae): 2,2 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

IC50 (algae): 1 - 10 mg/l Exposure time: 72 h

Toxicity to microorganisms EC50 (Bacteria): 1 - 10 mg/l

**Ecotoxicology Assessment** 

Chronic aquatic toxicity This product has no known ecotoxicological effects.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l

aquatic invertebrates Exposure time: 48 h

according to Regulation (EC) No. 1907/2006

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xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 4,6

mg/l

Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

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: 0,96 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (water flea)

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

n-butyl acetate:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 18 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 44 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 23 mg/l Exposure time: 21 d

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

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test

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

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 96 h Test Type: static test

according to Regulation (EC) No. 1907/2006

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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

trizinc bis(orthophosphate):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg/l

Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,044 mg/l Exposure time: 72 d

Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic

toxicity)

1

zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 3,31 mg/l

End point: mortality Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 0,76 mg/l

End point: mortality Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: IC50 (Pseudokirchneriella subcapitata (green algae)): 0,136

mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,44 mg/l End point: mortality

Exposure time: 72 d

according to Regulation (EC) No. 1907/2006

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Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

aquatic invertebrates (Chronic toxicity)

NOEC: 0,058 mg/l Exposure time: 21 d

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

M-Factor (Chronic aquatic

toxicity)

: 1

#### 12.2 Persistence and degradability

#### **Components:**

xylene:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301

n-butyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 83 % Exposure time: 28 d

#### 2-methoxy-1-methylethyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301F

#### 12.3 Bioaccumulative potential

#### **Components:**

#### reaction mass of ethylbenzene and m-xylene and p-xylene:

Partition coefficient: n-

octanol/water

log Pow: 3,2 (20 °C)

# titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Partition coefficient: n-

octanol/water

Remarks: Not applicable

xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 25,9

Partition coefficient: n-

octanol/water

: log Pow: 3,155 (20 °C)

according to Regulation (EC) No. 1907/2006

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n-butyl acetate:

Partition coefficient: n- : log Pow: 2,3 (25 °C)

octanol/water Method: OECD Test Guideline 117

2-methoxy-1-methylethyl acetate:

Partition coefficient: n- : log Pow: 1,2 (20 °C)

octanol/water pH: 6,8

Method: OECD Test Guideline 117

trizinc bis(orthophosphate):

Partition coefficient: n-

octanol/water

Remarks: Not applicable

12.4 Mobility in soil

No data available

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.

12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered 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.

12.7 Other adverse effects

**Product:** 

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.

according to Regulation (EC) No. 1907/2006

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Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

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 or ID 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
IMDG : PAINT

(trizinc bis(orthophosphate))

IATA : Paint

#### 14.3 Transport hazard class(es)

Class Subsidiary risks

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

according to Regulation (EC) No. 1907/2006

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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, S-E

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen- : 355

ger aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

**ADR** 

Environmentally hazardous : no

RID

Environmentally hazardous : no

MDG

Marine pollutant : yes

#### 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.

according to Regulation (EC) No. 1907/2006

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#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

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

Water hazard class (Germa-

ny)

WGK 2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Directive 2004/42/EC Volatile organic compounds

> Volatile organic compounds (VOC) content: < 540 g/l VOC content for the product in a ready to use condition.

#### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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.

according to Regulation (EC) No. 1907/2006

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#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H226 : Flammable liquid and vapor.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer if inhaled.

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

EUH066 : Repeated exposure may cause skin dryness or cracking.

#### 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
Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation

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

2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

TRGS 903 : c - Biological limit values 2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit 2019/1831/EU / TWA : Limit Value - eight hours 2019/1831/EU / STEL : Short term exposure limit DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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 La-

according to Regulation (EC) No. 1907/2006

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boratory 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; TECI -Thailand Existing Chemicals 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 of the mixture: Classification procedure: Flam. Liq. 3 H226 Based on product data or assessment Skin Irrit. 2 Calculation method H315 Eye Irrit. 2 H319 Calculation method STOT RE 2 H373 Calculation method Aquatic Chronic 3 H412 Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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