according to Regulation (EC) No. 1907/2006

## **Carsystem Polyester Faserspachtel**

Version Revision Date: Date of last issue: 21.06.2022 2.1 DE / EN 04.09.2023 Date of first issue: 21.06.2022

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

1.1 Product identifier

Trade name : Carsystem Polyester Faserspachtel

Product code : 124.036

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

Use of the Sub- : Body filler/stopper

stance/Mixture

Recommended restrictions

on use

: Reserved for industrial and 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.

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

Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - repeated

exposure, Category 1

H372: Causes damage to organs through pro-

longed or repeated exposure.

Long-term (chronic) aquatic hazard, Cat-

egory 4

H413: May cause long lasting harmful effects to

aquatic life.

#### 2.2 Label elements

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

Hazard pictograms







Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or re-

peated exposure.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

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

flames and other ignition sources. No smoking. P260 Do not breathe dust / mist / vapours.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

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ter for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

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

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

styrene 2,2'-(m-tolylimino)diethanol maleic anhydride

#### 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

contains Resin

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
unsaturated polyester polymer	Not Assigned	Aquatic Chronic 4; H413 Acute toxicity estimate	>= 20 - < 25
		Acute oral toxicity: > 2.000 mg/kg	

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		Acute inhalation toxicity (dust/mist): > 5 mg/l Acute dermal toxicity: > 2.000 mg/kg	
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute inhalation toxicity (vapor): 11,8	>= 10 - < 20
2,2'-(m-tolylimino)diethanol	91-99-6 202-114-8 01-2120791683-42	mg/l Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT RE 2; H373 (Kidney) Acute toxicity estimate	>= 0,1 - < 1
		Acute oral toxicity: 1.000 mg/kg	
1-ethylpyrrolidin-2-one	2687-91-4 220-250-6 616-208-00-5 01-2119472138-36	Eye Dam. 1; H318 Repr. 1B; H360Df	>= 0,1 - < 0,3
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071  specific concentration limit Skin Sens. 1A; H317	>= 0,001 - < 0,1

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			>= 0,001 %	
			Acute toxicity esti- mate	
			Acute oral toxicity: 1.090 mg/kg	
3	Substances with a workpl	ace exposure limit :		
-	Talc	14807-96-6 238-877-9		>= 30 - < 50

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 material safety data sheet to the doctor in attend-

ance.

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 while

removing all contaminated clothes and shoes. 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 : Rinse mouth with water.

Do NOT induce vomiting. Call a physician immediately.

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

Risks : Causes skin irritation.

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May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Keep under medical supervision for at least 48 hours.

**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 fire-fighters

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

Use personal protective equipment.

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.

**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.

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Avoid contact with skin, eyes and clothing. Sweep up to prevent slipping hazard.

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

proved filter.

6.2 Environmental precautions

Environmental precautions : 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. Avoid contact with skin and eyes.

Avoid the inhalation of dust, particulates, spray or mist arising

from the application of this mixture. Avoid inhalation of dust from sanding.

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.

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. Do not store at

temperatures above 30 °C / 86 °F.

Advice on common storage : Incompatible with oxidizing agents.

Keep away from food and drink.

Storage class (TRGS 510) : 3

#### 7.3 Specific end use(s)

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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	Control parameters	Basis		
·		of exposure)				
Talc	14807-96-6	AGW (Inhalable	10 mg/m3	DE TRGS		
	5 1 11 11 11	fraction)		900		
	Peak-limit cat	egory: 2;(II)				
			compliance with the OEL a	nd biological		
	tolerance valu		of harming the unborn child	T D = TD 0.0		
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900		
	Peak-limit cat	,		1 900		
			compliance with the OEL a	nd hiological		
			of harming the unborn child	nd biological		
	tolcrance vale	TWA (Respirable	0,1 mg/m3	2004/37/EC		
		dust)	0,1 mg/me	200-707720		
	Further inform	nation: Carcinogens	or mutagens			
Barium sulphate	7727-43-7	AGW (Inhalable	10 mg/m3	DE TRGS		
Barram Gaipmato		fraction)		900		
	Peak-limit cat	,	I	1		
	Further information: When there is compliance with the OEL and biological					
		tolerance values, there is no risk of harming the unborn child				
		AGW (Alveolate	1,25 mg/m3	DE TRGS		
		fraction)	, 3	900		
	Peak-limit category: 2;(II)					
	Further information: When there is compliance with the OEL and biological					
	tolerance valu	ues, there is no risk o	of harming the unborn child	-		
styrene	100-42-5	AGW	20 ppm	DE TRGS		
			86 mg/m3	900		
	Peak-limit category: 2;(II)					
	Further information: When there is compliance with the OEL and biological					
			of harming the unborn child			
1-ethylpyrrolidin-2-	2687-91-4	AGW (Vapour	5 ppm	DE TRGS		
one		and aerosols)	23 mg/m3	900		
	Peak-limit category: 2;(I)					
			on, When there is complianc			
	and biological tolerance values, there is no risk of harming the unb					
maleic anhydride	108-31-6	AGW (Vapour	0,02 ppm	DE TRGS		
	Deal Print	and aerosols)	0,081 mg/m3	900		
	Peak-limit category: 1; =2.5=(I)					
	Further information: In well-found cases also a momentary value can be es-					
	tablished, that never can be exceeded. This substance will be indicated by = =					
	in combination with an exceeding value., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn					
	child, Substance sensitizing through the skin and respiratory system					
	Torniu, Substar	ice sensitizing throug	gn the skin and respiratory s	ysiem		

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### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours	TRGS 903

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

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic effects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic effects	85 mg/m3
	Workers	Inhalation	Acute systemic effects, Chronic effects	289 mg/m3
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m3
	Consumers	Oral	Long-term systemic effects, Chronic effects	2,1 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects, Chronic effects	343 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Chronic effects	10,2 mg/m3
	Consumers	Inhalation	Acute systemic effects, Short-term exposure	174,25 mg/m3
	Consumers	Inhalation	Acute local effects, Short-term exposure	182,75 mg/m3
2,2'-(m- tolylimino)diethanol	Workers	Inhalation	Long-term systemic effects, Acute systemic effects	0,8 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,23 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Acute systemic effects	0,24 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,07 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects, Acute systemic effects	0,14 mg/kg bw/day
maleic anhydride	Workers	Inhalation	Long-term systemic effects	0,081 mg/m3

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Workers Inhalation Acute systemic ef- 0,2 mg/m3 fects

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

Substance name	Environmental Compartment	Value
styrene	Fresh water	0,028 mg/l
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry
		weight (d.w.)
	Sea sediment	0,307 mg/kg dry
		weight (d.w.)
	Soil	0,2 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	5 mg/l
2,2'-(m-tolylimino)diethanol	Fresh water	0,107 mg/l
	Sea water	0,011 mg/l
	Sewage treatment plant (STP)	81,7 mg/l
	Fresh water sediment	2,16 mg/kg dry
		weight (d.w.)
	Sea sediment	0,22 mg/kg dry
		weight (d.w.)
	Soil	0,37 mg/kg dry
		weight (d.w.)
maleic anhydride	Fresh water	0,038 mg/l
	Sea water	0,004 mg/l
	Fresh water sediment	0,296 mg/kg dry
		weight (d.w.)
	Sea sediment	0,03 mg/kg dry
		weight (d.w.)
	Soil	0,037 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	44,6 mg/l

#### 8.2 Exposure controls

Personal protective equipment

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

Hand protection

Material : Fluorinated rubber

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

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from one producer to the other. Preventive skin protection Butyl gloves are not suitable. Nitrile gloves are not suitable.

Avoid natural rubber gloves.

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.

If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment

should be used.

Dry sanding, flame cutting and/or welding of the cured materi-

al will give rise to dust and/or hazardous fumes.

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. Use only with adequate ventilation.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state : paste

Color : green

Odor : characteristic

Melting point/range : -30 °C

Literary value styrene

Boiling point/boiling range : 145 °C (1.013 hPa)

Literary value styrene

Upper explosion limit / Upper

flammability limit

6,1 %(V)

Literary value styrene

Lower explosion limit / Lower

flammability limit

1,1 %(V)

Literary value styrene

Flash point :  $31 \, ^{\circ}\text{C} (1.013 \, \text{hPa})$ 

Literary value styrene

Autoignition temperature : 490 °C (1.013 hPa)

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Literary value styrene

Decomposition temperature : No data available

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

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : 0,32 g/l (25 °C)

Literary value styrene

Partition coefficient: n-

octanol/water

log Pow: 2,96 (25 °C) Literary value styrene

No data available

Vapor pressure : 6,67 hPa (20 °C)

Literary value styrene

Density : ca. 1,8 g/cm3 (20 °C)

Relative vapor density : No data available

9.2 Other information

Explosives : Not explosive

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

Flammability (liquids) : Flammable

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 : Avoid radical-forming starting agents, peroxides and reactive

metals.

Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause ther-

mal decomposition and/or rupture containers.

#### 10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006

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Conditions to avoid : Heat, flames and sparks.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

polymerization initiators

Copper alloys

**Brass** 

#### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

### **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

#### **Components:**

## unsaturated polyester polymer:

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

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

styrene:

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

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

2,2'-(m-tolylimino)diethanol:

Acute oral toxicity : LD50 (Rat): 1.000 mg/kg

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Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

1-ethylpyrrolidin-2-one:

Acute oral toxicity : LD50 Oral (Rat): ca. 3.200 mg/kg

maleic anhydride:

Acute oral toxicity : LD50 Oral (Rat): 1.090 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4,35 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.620 mg/kg

Talc:

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

Method: OECD Test Guideline 423

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes skin irritation.

### **Components:**

styrene:

Species : Rabbit Result : irritating

2,2'-(m-tolylimino)diethanol:

Species : human keratinocytes

Exposure time : 0,25 h

Method : OECD Test Guideline 439

Result : Skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

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**Components:** 

styrene:

Species : Rabbit Result : irritating

2,2'-(m-tolylimino)diethanol:

Species : Rabbit

Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

1-ethylpyrrolidin-2-one:

Assessment : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

styrene:

Species : Guinea pig

Result : Does not cause skin sensitization.

2,2'-(m-tolylimino)diethanol:

Result : The product is a skin sensitizer, sub-category 1B.

maleic anhydride:

Result : The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

**Components:** 

styrene:

Reproductive toxicity - As-

sessment

Suspected of damaging the unborn child., Some evidence of adverse effects on development, based on animal experi-

ments.

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1-ethylpyrrolidin-2-one:

Reproductive toxicity - As-

sessment

May damage the unborn child. Suspected of damaging fertili-

ty.

STOT-single exposure

Not classified based on available information.

Components:

styrene:

Assessment : May cause respiratory irritation.

1-ethylpyrrolidin-2-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Components:** 

styrene:

Routes of exposure : Inhalation Target Organs : hearing organs

Assessment : Causes damage to organs through prolonged or repeated

exposure.

2,2'-(m-tolylimino)diethanol:

Routes of exposure : Oral Target Organs : Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

1-ethylpyrrolidin-2-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

maleic anhydride:

Routes of exposure : Inhalation

Target Organs : Respiratory system

Assessment : Causes damage to organs through prolonged or repeated

exposure.

**Aspiration toxicity** 

Not classified based on available information.

according to Regulation (EC) No. 1907/2006

## **Carsystem Polyester Faserspachtel**

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#### **Components:**

#### styrene:

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:**

#### unsaturated polyester polymer:

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

styrene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 4,7 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l

Exposure time: 72 h

EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l

Exposure time: 96 h

Toxicity to microorganisms : EC50 (Natural microorganism): ca. 500 mg/l

Method: OECD Test Guideline 209

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1,01 mg/l Exposure time: 21 d

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

according to Regulation (EC) No. 1907/2006

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**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2,2'-(m-tolylimino)diethanol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 102 mg/l

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 107 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 2.170 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

maleic anhydride:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l

Exposure time: 96 h Method: EPA-660/3-75-00

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 37,9 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 65,78

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

**Ecotoxicology Assessment** 

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

#### 12.2 Persistence and degradability

### **Components:**

styrene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 70,9 %

according to Regulation (EC) No. 1907/2006

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Exposure time: 28 d

2,2'-(m-tolylimino)diethanol:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301D

maleic anhydride:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 90 % Exposure time: 225 d

Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

**Components:** 

styrene:

Partition coefficient: n-

octanol/water

log Pow: 2,96 (25 °C)

2,2'-(m-tolylimino)diethanol:

Partition coefficient: n-

octanol/water

log Pow: 0,934

1-ethylpyrrolidin-2-one:

Partition coefficient: n-

octanol/water

log Pow: -0,2 (20 °C)

maleic anhydride:

Partition coefficient: n-

octanol/water

log Pow: -2,61 (20 °C)

Talc:

Partition coefficient: n-

log Pow: -9,4 (25 °C)

octanol/water pH: 7

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.

according to Regulation (EC) No. 1907/2006

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#### **Components:**

#### 1-ethylpyrrolidin-2-one:

Assessment : This substance is considered to be persistent, bioaccumulat-

ing and toxic (PBT).

#### 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.

Dispose of wastes in an approved waste disposal facility.

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:

07 02 08, other still bottoms and reaction residues

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

**ADN** : UN 1866 **ADR** : UN 1866

according to Regulation (EC) No. 1907/2006

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**RID UN 1866 IMDG** UN 1866 IATA **UN 1866** 

14.2 UN proper shipping name

**ADN RESIN SOLUTION ADR RESIN SOLUTION** RID **RESIN SOLUTION IMDG RESIN SOLUTION IATA** Resin solution

14.3 Transport hazard class(es)

Class Subsidiary risks

**ADN** 3 **ADR** 3 RID 3 **IMDG** 3 3 IATA

### 14.4 Packing group

ADN

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

**ADR** 

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

**RID** 

Packing group Ш Classification Code F1 Hazard Identification Number : 30 Labels

**IMDG** 

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

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) Y344

366

according to Regulation (EC) No. 1907/2006

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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

**IMDG** 

Marine pollutant : no

#### 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

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 ven-

dor.

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

according to Regulation (EC) No. 1907/2006

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REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Seveso III: Directive 2012/18/EU of the Euro-P5c FLAMMABLE LIQUIDS

pean Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

Water hazard class (Germa- : WGK 2 obviously hazardous to water

ny) Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC

Volatile organic compounds (VOC) content: < 250 g/l VOC content for the product in a ready to use condition.

#### Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

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.

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

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

H226 : Flammable liquid and vapor.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways. H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.

H360Df : May damage the unborn child. Suspected of damaging fertili-

ty.

H361d : Suspected of damaging the unborn child.

H372 : Causes damage to organs through prolonged or repeated

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exposure if inhaled.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H373 : May cause damage to organs through prolonged or repeated

exposure if swallowed.

H412 : Harmful to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

EUH071 : Corrosive to the respiratory tract.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Repr. : Reproductive toxicity
Resp. Sens. : Respiratory sensitization

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

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

TRGS 903 : c - Biological limit values 2004/37/EC / TWA : Long 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 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

according to Regulation (EC) No. 1907/2006

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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	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Skin Sens. 1	H317	Calculation method	
Repr. 2	H361d	Calculation method	
STOT RE 1	H372	Calculation method	
Aquatic Chronic 4	H413	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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