

## Safety Data Sheet

### Clear PE Sealer

Safety Data Sheet dated: 01/06/2023 - version 6

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

### 1.1. Product identifier

Mixture identification:

Trade name: Clear PE Sealer

Trade code: **6PCV2029EST**

UFI: CYT4-C18V-W00U-AH4Y

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

Recommended use: Surface coating

Uses advised against: N.A.

### 1.3. Details of the supplier of the safety data sheet

Company: Sirca S.p.A.

Viale Roma, 85

35010 Sandono di Massanzago (PD) - ITALY

Tel. +39 0499322311

Email: safety@sirca.it

### 1.4. Emergency telephone number

National Poisons Information Service - Medical Toxicology Unit - London - Tel. 0171/6359191

Scottish Poisons Information Bureau - The Royal Infirmary - Edinburgh - Tel. 01/315362298

Welsh National Poisons Unit - Ward West 5 - Llandough Hospital Penarth - Cardiff - Tel. 012/22709901

Poisons Information Centre - Royal Victoria Hospital - Belfast - Tel. 012/32240503

Poisons Information centre - Beaumont Hospital - Dublin - Tel. 0103531/8379964

CAV Policlinico "Umberto I". Roma V.le del Policlinico, 155 161 Telefono 06-49978000

Osp. Niguarda Ca' Granda. Milano Piazza Ospedale Maggiore,3 20162 Telefono 02-66101029

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
Repr. 2	Suspected of damaging fertility or the unborn child.
STOT SE 3	May cause respiratory irritation.
STOT RE 1	Causes damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



Danger

### Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

#### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P370+P378	In case of fire: Use CO2, Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

#### Contains

maleic anhydride  
styrene  
xylene [isomer mixture]

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: Clear PE Sealer

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
20-25 %	styrene	CAS:100-42-5 EC:202-851-5 Index:601-026-00-0	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Repr. 2, H361d; Aquatic Chronic 3, H412; Acute Tox. 4, H332; STOT RE 1, H372; Skin Irrit. 2, H315; Eye Irrit. 2, H319	01-2119457861-32-xxxx
3-5 %	xylene [isomer mixture]	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Eye Irrit. 2, H319; STOT SE 3, H335; STOT RE 2, H373; Skin Irrit. 2, H315; Acute Tox. 4, H312; Acute Tox. 4, H332	01-2119488216-32-xxxx
2.5-3 %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46-xxxx
2.5-3 %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021-00-3	Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336	01-2119471310-51-xxxx
2-2.5 %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49-xxxx
0.5-1 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373	01-2119489370-35-xxx

0.0015-0.05 %	1,4-dihydroxybenzene	CAS:123-31-9 EC:204-617-8 Index:604-005-00-4	Carc. 2, H351, H341; Muta. 2, H318; Eye Dam. 1, H318; Skin Sens. 1, H317, H400; Aquatic Acute 1, H302; Acute Tox. 4, H302, M:10	01-2119524016-51-xxxx
0.0015-0.05 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226	01-2119475791-29-xxxx
0.0015-0.05 %	maleic anhydride	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT RE 1, H372 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Resp. Sens. 1, H334  Specific Concentration Limits: C ≥ 0,001%: Skin Sens. 1A H317	01-2119472428-31-xxxx
0.0015-0.05 %	phosphoric acid ... %, orthophosphoric acid ... %	CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6	Met. Corr. 1, H290, H314 Skin Corr. 1B, H314 Eye Dam. 1, H318  Specific Concentration Limits: 10% ≤ C < 25%: Skin Irrit. 2 H315 10% ≤ C < 25%: Eye Irrit. 2 H319 25% ≤ C < 100%: Skin Corr. 1B H314	
< 0.0015%	hydrocarbons, c10-c13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC:918-481-9	Asp. Tox. 1, H304, EUH066	01-2119457273-39-xxxx

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye damages

Skin Irritation

Contact a poisons centre

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use CO<sub>2</sub>, Foam, Chemical powders For extinction.

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Cool the containers exposed to the fire with water.

### 5.3. Advice for firefighters

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Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

For non emergency personnel:  
Wear personal protection equipment.  
Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Collect the spilled product with no-sparking tools.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.  
For emergency responders:  
Wear personal protection equipment.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

### **6.3. Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand  
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.  
Collect spilled material with non-sparking equipment.  
Wash with plenty of water.

### **6.4. Reference to other sections**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Keep away from flame and sparks. Avoid accumulating electrostatic charge.  
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
Do not smoke while working.  
See also section 8 for recommended protective equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

Always keep in a well ventilated place.  
Store at below 30 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### **7.3. Specific end use(s)**

No further recommendations. Refer to point 1.2

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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

### **8.1. Control parameters**

#### **Community Occupational Exposure Limits (OEL)**

	OEL Type	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Notes
styrene CAS: 100-42-5	ACGIH		20		40	A4, BEI - CNS impair, URT irr, peripheral neuropathy
xylene [isomer mixture] CAS: 1330-20-7	ACGIH	50	100	100	150	A4, BEI - URT and eye irr, CNS impair
ethyl acetate CAS: 141-78-6	EU	734,000	200	1468,000	400,000	
toluene CAS: 108-88-3	ACGIH	50	20			A4, BEI - Visual impair, female repro, pregnancy loss
acetone CAS: 67-64-1	EU	1210	250			
	ACGIH	300				
ethylbenzene CAS: 100-41-4	ACGIH	100,000	20,000	150,000		A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
	EU					Skin
2-methoxy-1-methylethyl acetate CAS: 108-65-6	EU	275	50	550	100	Skin
phosphoric acid ... %, orthophosphoric acid ... % CAS: 7664-38-2	EU	1		2		
	ACGIH	1		3		
hydrocarbons, c10-c13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EU			1200		

#### Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
styrene CAS: 100-42-5	0,028 mg/l	Fresh Water		
	0,614 mg/kg	Freshwater sediments		
	0,0614 mg/kg	Marine water sediments		
	0,2 mg/kg	Soil (agricultural)		
	0,0028 mg/l	Marine water		
xylene [isomer mixture] CAS: 1330-20-7	0,327 mg/l	Fresh Water		
	0,327 mg/l	Fresh Water		
	0,327 mg/l	occasional emission		
	6,58 mg/l	Microorganisms in sewage treatments		
	2,31 mg/kg	Soil (agricultural)		dry
	12,46 mg/kg	Marine water sediments		dry
	12,46 mg/kg	Freshwater sediments		dry
ethyl acetate CAS: 141-78-6	0,26 mg/l	Fresh Water		
	0,026 mg/l	Marine water		
	1,25 mg/kg	Freshwater sediments		
	0,125 mg/kg	Marine water sediments		
	0,24 mg/kg	Soil (agricultural)		
	200 mg/kg	orally (secondary poisoning)		
	650 mg/l	STP		
toluene CAS: 108-88-3	0,68 mg/l	Fresh Water		
	0,68 mg/l	Marine water		

acetone CAS: 67-64-1	2,89 mg/kg	Soil (agricultural)	
	16,39 mg/l	Marine water sediments	
	16,39 mg/l	Freshwater sediments	
	13,61 mg/l	STP	
	1,06 mg/l	Marine water	
ethylbenzene CAS: 100-41-4	3,04 mg/l	Marine water sediments	
	30,4 mg/l	Fresh Water	
	29,5 mg/kg	Soil (agricultural)	
	30,4 mg/kg	Freshwater sediments	
	0,1 mg/l	Fresh Water	
1,4-dihydroxybenzene CAS: 123-31-9	0,01 mg/l	Marine water	
	13,7 mg/l	Freshwater sediments	
	13,7 mg/l	Marine water sediments	
	0,1 mg/l	occasional emission	
	0 mg/l	Fresh Water	
2-methoxy-1-methylethyl acetate CAS: 108-65-6	0 mg/l	Marine water	
	0,001 mg/l	Freshwater sediments	
	0 mg/l	Marine water sediments	
	0,001 mg/l	occasional emission	
	0 mg/l	Soil (agricultural)	
	0,71 mg/l	STP	
	0,635 mg/l	Fresh Water	
maleic anhydride CAS: 108-31-6	0,064 mg/l	Marine water	
	0,329 mg/kg	Marine water sediments	dry
	3,29 mg/kg	Freshwater sediments	dry
	0,29 mg/kg	Soil (agricultural)	dry
	100 mg/l	STP	
	0,043 mg/l	Fresh Water	
	0,004 mg/l	Marine water	
	0,334 mg/kg	Freshwater sediments	
	0,033 mg/kg	Marine water sediments	
	0,042 mg/kg	Soil (agricultural)	
	0,428 mg/l	occasional emission	
	44,6 mg/l	STP	

**Derived No Effect Level (DNEL) values**

	<b>Worker Industry</b>	<b>Worker Professional</b>	<b>Consumer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
styrene CAS: 100-42-5		289 mg/m3		Human Inhalation	Short Term, systemic effects	
		306 mg/m3		Human Inhalation	Short Term, local effects	
		406 mg/Kg-bw/day		Human Dermal	Long Term, systemic effects	
		85 mg/m3		Human Inhalation	Long Term, systemic effects	
			2,1 mg/Kg-bw/day	Human Oral	Long Term, systemic effects	
			174,25 mg/m3	Human Inhalation	Short Term, systemic effects	
			182,75 mg/m3	Human Inhalation	Short Term, local effects	
			343 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects	

xylene [isomer mixture] CAS: 1330-20-7	180 mg/Kg-bw/day	10,2 mg/m3	Human Inhalation	Long Term, systemic effects
			Human Dermal	Long Term, systemic effects
	77 mg/m3		Human Inhalation	Long Term, systemic effects
		108 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects
ethyl acetate CAS: 141-78-6	1468 mg/m3	1872 mg/m3	Human Inhalation	Long Term, local effects
		12,5 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
	1468 ppm	734 mg/m3	Human Inhalation	Short Term, systemic effects
		63 mg/Kg-bw/day	Human Dermal	Short Term (acute) Long Term, systemic effects
	734 mg/m3		Human Inhalation	Long Term, local effects
			Human Inhalation	Long Term, systemic effects
	734 mg/m3	4,5 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
			Human Inhalation	Short Term (acute)
			Human Inhalation	Long Term, systemic effects
			Human Dermal	Long Term, local effects
		Human Inhalation	Short Term, local effects	
		Human Inhalation	Long Term, systemic effects	
toluene CAS: 108-88-3	226 mg/m3	226 mg/m3	Human Inhalation	Short Term, systemic effects
			Human Dermal	Short Term, local effects Long Term, systemic effects
	56,5 mg/m3	56,5 mg/m3	Human Inhalation	Long Term, systemic effects
		8,13 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
	384 mg/kg/day		Human Dermal	Long Term, systemic effects
			Human Inhalation	Short Term, systemic effects
	384 mg/m3		Human Inhalation	Long Term, systemic effects
			Human Dermal	Long Term, systemic effects
	192 mg/m3	186 mg/kg/day	Human Dermal	Long Term, systemic effects
			Human Inhalation	Short Term (acute)
ethylbenzene CAS: 100-41-4	180 mg/kg/day	2420 mg/m3	Human Inhalation	Long Term, systemic effects
		1210 mg/m3	Human Inhalation	Long Term, systemic effects
1,4-dihydroxybenzene CAS: 123-31-9	293 mg/m3		Human Dermal	Short Term, local effects
		77 mg/m3	Human Inhalation	Long Term, systemic effects
128 mg/Kg-bw/day		Human Dermal	Long Term, systemic effects	
		Human Inhalation	Long Term, systemic effects	
7 mg/m3		Human Inhalation	Long Term, systemic effects	
		Human Inhalation	Long Term, local effects	
1 mg/m3		Human Dermal	Long Term, systemic effects	
	64 mg/Kg-bw/day			
2-methoxy-1-methylethyl acetate CAS: 108-65-6	153,5 mg/kg	1,74 mg/m3	Human Inhalation	Long Term, systemic effects
		0,5 mg/m3	Human Inhalation	Long Term, local effects
		Human Dermal	Long Term, systemic effects	

	275 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
	54,8 mg/kg/day	Human Dermal	Long Term, systemic effects
	33 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
	1,67 mg/kg/day	Human Oral	Long Term, systemic effects
maleic anhydride CAS: 108-31-6	0,8 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
	0,4 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
	0,04 mg/cm <sup>2</sup>	Human Dermal	Short Term, local effects
	0,04 mg/cm <sup>2</sup>	Human Dermal	Long Term, local effects
	0,8 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
	0,4 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
phosphoric acid ... %, orthophosphoric acid ... % CAS: 7664-38-2	1 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
	2 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
	0,75 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects

## 8.2. Exposure controls

### Eye protection:

Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

### Protection for hands:

Due to the synergistic effect of the substances contained in the formulation it is not possible to identify a single material capable of resisting their combination. Multilayer protective gloves for mixtures of substances may be suitable. Always refer to the protection degree and permeation rate data provided by the glove manufacturer with regard to the substances listed in point 3 of this sheet.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

### Respiratory protection:

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

### Thermal Hazards:

N.A.

### Environmental exposure controls:

None known

### Hygienic and Technical measures

N.A.

## SECTION 9: Physical and chemical properties

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

Physical State Liquid

Appearance and colour: Liquid amber

Odour: characteristic

pH: Not Relevant

Kinematic viscosity: N.A.

Melting point / freezing point: > 1 °C / < 0 °C

Initial boiling point and boiling range: > 55 °C

Flash point: < 23°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.02 kg/l

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 250 °C

Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 2 H225

#### Particle characteristics:

Particle size: N.A.

### 9.2. Other information

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Viscosity: 60.00 s ( " Din cup # 6 )

No other relevant information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

vapours potentially dangerous to health may be released.

## SECTION 11: Toxicological information

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

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Repr. 2(H361)
h) STOT-single exposure	The product is classified: STOT SE 3(H335)
i) STOT-repeated exposure	The product is classified: STOT RE 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

styrene	a) acute toxicity	LC50 Inhalation Rat = 11,8 mg/l 4h
		LD50 Oral Rat = 2650 mg/kg
		LD50 Skin Rat > 2000 mg/kg
xylene [isomer mixture]	a) acute toxicity	LD50 Inhalation Rat = 27 mg/l 4h
		LD50 Oral Rat = 3523 mg/kg
		LD50 Skin Rabbit = 12126 mg/kg
ethyl acetate	a) acute toxicity	LD50 Skin Rabbit > 20000 mg/kg
		LD50 Oral Rat = 5620 mg/kg
		LC50 Inhalation Rat > 29,3 mg/l 4h
		LD50 Oral Rabbit = 4934 mg/kg body weight
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative
	e) germ cell mutagenicity	Genotoxicity Negative
j) aspiration hazard	Respiratory Tract Corrosive Inhalation Positive	
toluene	a) acute toxicity	LD50 Oral Rat 5000 mg/kg 24h
		LD50 Skin Rabbit 12267 mg/kg

		LC50 Inhalation Rat 25,7 mg/l 4h	
acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg LD50 Skin Rabbit = 7800 mg/kg LC50 Inhalation Rat 50100 mg/m3 8h	
	b) skin corrosion/irritation	Eye Irritant Yes Skin Irritant Skin Yes	Il contatto ripetuto può causare dermatiti
ethylbenzene	a) acute toxicity	LD50 Oral Rat = 3500 mg/kg LD50 Oral Rat = 4710 mg/kg body weight LD50 Skin Rabbit = 15400 mg/kg DZSR_004 Inhalation Rat = 4000 Ppm 4h	
	d) respiratory or skin sensitisation	Skin Sensitization Skin Cavia porcellus Negative	
1,4-dihydroxybenzene	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg LD50 Oral Rat = 367 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Skin Rat Negative	
	c) serious eye damage/irritation	Eye Irritant Positive	
	d) respiratory or skin sensitisation	Skin Sensitization Skin Cavia porcellus Positive	
	g) reproductive toxicity	NOAEL Oral Rat Negative 15 mg/kg	
	i) STOT-repeated exposure	NOAEL Oral Rat Negative 20 mg/kg	
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat = 8532 mg/kg  LC50 Skin Rat > 5000 mg/kg LC50 Inhalation Mist Rat > 23,8 mg/l 6h	
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit Negative	
	d) respiratory or skin sensitisation	Skin Sensitization Skin Cavia porcellus Negative	
maleic anhydride	a) acute toxicity	LD50 Oral Rat = 1090 mg/kg body weight LD50 Skin Rabbit = 2620 mg/kg body weight LD50 Inhalation Rat = 4,35 mg/l 1h	

**Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration  $\geq$  0.1%

**11.2 Information on other hazards**

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant.

It contains low molecular epoxy constituents which are irritating to eyes, mucous me

**SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
styrene	CAS: 100-42-5 - EINECS: 202-851-5 - INDEX: 601-026-00-0	a) Aquatic acute toxicity : LC50 Fish = 4,02 mg/l 96  a) Aquatic acute toxicity : EC50 Algae = 4,9 mg/l 72 a) Aquatic acute toxicity : EC50 Daphnia = 4,7 mg/l 48
xylene [isomer mixture]	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 1 mg/l 48  a) Aquatic acute toxicity : LC50 Fish = 3,2 mg/l 96 a) Aquatic acute toxicity : LC50 Algae = 2,6 mg/l 73
ethyl acetate	CAS: 141-78-6 - EINECS: 205-500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : LC50 Fish = 454,7 mg/l 96  a) Aquatic acute toxicity : EC50 Daphnia = 154 mg/l 72 a) Aquatic acute toxicity : EC50 Algae = 3300 mg/l 48 b) Aquatic chronic toxicity : NOEC Algae > 100 mg/l 72
toluene	CAS: 108-88-3 - EINECS: 203-625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity : LC50 Fish = 5,5 ml/l 96  a) Aquatic acute toxicity : EC50 Algae > 134 ml/l 72 b) Aquatic chronic toxicity : EC50 Daphnia = 3,78 mg/l 48
acetone	CAS: 67-64-1 - EINECS: 200-662-2 - INDEX: 606-001-00-8	a) Aquatic acute toxicity : EC50 Daphnia = 8800 mg/kg  b) Aquatic chronic toxicity : EC50 Fish = 6070 mg/l 96 b) Aquatic chronic toxicity : NOEC Fish 6070 mg/l 96
ethylbenzene	CAS: 100-41-4 - EINECS: 202-849-4 - INDEX: 601-023-00-4	a) Aquatic acute toxicity : LC50 Fish = 42,3 mg/l 96
1,4-dihydroxybenzene	CAS: 123-31-9 - EINECS: 204-617-8 - INDEX: 604-005-00-4	a) Aquatic acute toxicity : LC50 Fish = 0,638 mg/l 96  a) Aquatic acute toxicity : EC50 Daphnia = 0,134 mg/l 48 a) Aquatic acute toxicity : ErC50 Algae = 0,33 mg/l 72 b) Aquatic chronic toxicity : NOEC Daphnia = 0,0057 mg/l - 21d
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish > 100 ml/l 96 - Method OECD linee guide 203  a) Aquatic acute toxicity : EC50 Daphnia > 500 mg/l 48 - „,Method Direttiva 67/548CEE allegato V,C.2  a) Aquatic acute toxicity : ErC50 Algae > 1000 mg/l 72 - Method OECD TG 209
maleic anhydride	CAS: 108-31-6 - EINECS: 203-571-6 - INDEX: 607-096-00-9	a) Aquatic acute toxicity : LC50 Fish = 75 mg/l 96  a) Aquatic acute toxicity : LC0 Fish = 115 mg/l 48

phosphoric acid ... %, orthophosphoric acid ... %

CAS: 7664-38-2  
- EINECS: 231-633-2 - INDEX: 015-011-00-6

a) Aquatic acute toxicity : EC50 Algae = 29 mg/l 72  
a) Aquatic acute toxicity : EC50 Daphnia = 84 mg/l 24  
a) Aquatic acute toxicity : EC50 Daphnia 42,8 mg/l 48  
a) Aquatic acute toxicity : EC0 Eisenia foetica 44,6 mg/l 17  
a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/l 48  
a) Aquatic acute toxicity : ErC50 Algae > 100 mg/l 72

No endocrine disruptor substances present in concentration >= 0.1%

## 12.2. Persistence and degradability

None known

N.A.

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

## 12.6 Endocrine disrupting properties

## 12.6 Endocrine disrupting properties

## 12.7 Other adverse effects

N.A.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14.1. UN number or ID number

1263

### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

### 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### 14.5. Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

### 14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 3

ADR - Hazard identification number: 33

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ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air ( IATA ) :

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea ( IMDG ) :

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 367

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-MFAG: N/A

#### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/699 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40 3, 40

Restrictions related to the substances contained: 28, 29, 48, 75 28, 29, 48, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

#### Dir. 2010/75/EC (VOC directive) ; Dir. 2004/42/EC (VOC directive)

Total solid content: 62 - 65 %

Volatile Organic compounds - VOCs = 37 %

Volatile Organic compounds - VOCs = 372 g/L  
 Of which reactive monomers: 23 %  
 Total Volatile Organic Carbon (typical value): 32 %  
 Of which reactive monomers: 21 %

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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 difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/2	On basis of test data

3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method
3.7/2	Calculation method
3.8/3	Calculation method
3.9/1	Calculation method

This document was prepared by a competent person who has received appropriate training.

**Main bibliographic sources:**

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 16. OTHER INFORMATION



**Fac-simile label****Clear PE Sealer****Regulation (EC) No 1272/2008 (CLP):****Pictograms and Signal Words**

Danger

**Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P370+P378	In case of fire: Use CO <sub>2</sub> , Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

**Contains**

maleic anhydride  
styrene  
xylene [isomer mixture]

**QUANTITY:****SUPPLIER:**