



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008  
This SDS is for generic information purposes and does not reflect required country specific information for OEL

ZWALUW POLYPLAMUUR  
Supersedes Date: 15-Sep-2021

Revision date 22-Dec-2021  
Revision Number 1.01

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

### 1.1. Product identifier

Product Name ZWALUW POLYPLAMUUR  
Pure substance/mixture Mixture

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

Recommended use Two-component filler.  
Uses advised against None known.

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

#### Company Name

Bostik Benelux B.V.  
Denariusstraat 11  
4903 RC Oosterhout  
The Netherlands  
Tel: + 31 162 491 000

E-mail address SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

Emergency Telephone No information available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Reproductive toxicity	Category 2 - (H361)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

### 2.2. Label elements

Contains Styrene, Alkanes, C14-17, chloro



Signal word  
Warning

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## Hazard statements

H361d - Suspected of damaging the unborn child.  
H362 - May cause harm to breast-fed children.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.  
H226 - Flammable liquid and vapour.

## EU Specific Hazard Statements

EUH208 - Contains 2,2'-[(4-methylphenyl)imino]bisethanol & Cobalt bis(2-ethylhexanoate). May produce an allergic reaction

## Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P263 - Avoid contact during pregnancy and while nursing  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit. This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

Causes mild skin irritation. Toxic to aquatic life.

## PBT & vPvB

This mixture contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Styrene	202-851-5	100-42-5	5 - <10	STOT RE 1 (H372) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 2 (H361d) Acute Tox. 4 (H332) Flam Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) Aquatic Chronic 3 (H412)		01-2119457861-32-XXXX
Alkanes, C14-17, chloro	287-477-0	85535-85-9	1 - <2.5	Lact. (H362)		01-2119519269-

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				(EUH066) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		33-XXXX
Titanium dioxide	236-675-5	13463-67-7	0.1- <1	Carc. 2 (H351i)		01-2119489379- 17-XXXX
n-Butyl acetate	204-658-1	123-86-4	0.1- <1	(EUH066) STOT SE 3 (H336) Flam. Liq. 3 (H226)		01-2119485493- 29-XXXX
Ethyl acetate	205-500-4	141-78-6	0.1- <1	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)		01-2119475103- 46-XXXX
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	0.1- <1	^		01-2119450011- 60-XXXX
2,2'-[(4-methylphenyl)imi- no]bisethanol	221-359-1	3077-12-1	0.1- <1	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)		01-2120791684- 40-XXXX
Cobalt bis(2-ethylhexanoate)	205-250-6	136-52-7	0.01 - <0.1	Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Repr. 1B (H360f) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)		01-2119524678- 29-XXXX

## Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	EC No	CAS No	SVHC candidates
Alkanes, C14-17, chloro	287-477-0	85535-85-9	X

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

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<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

**Note to doctors** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** No information available.

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

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
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## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit. Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
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### 7.3. Specific end use(s)

**Specific use(s)**  
Two-component filler.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

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

### 8.1. Control parameters

#### **Exposure Limits**

**Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.**

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Chemical name	European Union
n-Butyl acetate 123-86-4	TWA: 50 ppm TWA: 241 mg/m <sup>3</sup> STEL: 150 ppm STEL: 723 mg/m <sup>3</sup>
Ethyl acetate 141-78-6	TWA: 734 mg/m <sup>3</sup> TWA: 200 ppm STEL: 1468 mg/m <sup>3</sup> STEL: 400 ppm
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> *

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Styrene (100-42-5)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	85 mg/m <sup>3</sup>	
worker Short term Systemic health effects	Inhalation	289 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	406 mg/kg bw/d	

Alkanes, C14-17, chloro (85535-85-9)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	6.7 mg/m <sup>3</sup>	
worker Systemic health effects Long term	Dermal	47.9 mg/kg bw/d	

Titanium dioxide (13463-67-7)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m <sup>3</sup>	

n-Butyl acetate (123-86-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	300 mg/m <sup>3</sup>	
worker Short term Systemic health effects	Inhalation	600 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
worker Short term	Inhalation	600 mg/m <sup>3</sup>	

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Local health effects			
worker Long term Systemic health effects	Dermal	11 mg/kg bw/d	

<b>Ethyl acetate (141-78-6)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	63 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	1468 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	734 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	1468 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Inhalation	734 mg/m <sup>3</sup>	

<b>2,2'-[(4-methylphenyl)imino]bisethanol (3077-12-1)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	3.29 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	0.47 mg/kg bw/d	

<b>Cobalt bis(2-ethylhexanoate) (136-52-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	235.1 µg/cm <sup>2</sup>	

<b>Derived No Effect Level (DNEL)</b>			
<b>Alkanes, C14-17, chloro (85535-85-9)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	28.75 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.58 mg/kg bw/d	

<b>Titanium dioxide (13463-67-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Oral	700 mg/kg bw/d	

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Long term Systemic health effects			
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<b>n-Butyl acetate (123-86-4)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	35.7 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Inhalation	300 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	35.7 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	2 mg/kg bw/d	

<b>Ethyl acetate (141-78-6)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	4.5 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	37 mg/kg bw/d	
Consumer Short term Systemic health effects	Inhalation	734 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	367 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	734 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Inhalation	367 mg/m <sup>3</sup>	

<b>2,2'-[(4-methylphenyl)imino]bisethanol (3077-12-1)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	0.58 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	0.17 mg/kg bw/d	
Consumer	Oral	0.16 mg/kg bw/d	



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Long term Systemic health effects			
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<b>Cobalt bis(2-ethylhexanoate) (136-52-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Local health effects	Inhalation	37 µg/cm <sup>2</sup>	
Consumer Long term Systemic health effects	Oral	55.8 µg/Kg bw/day	

**Predicted No Effect Concentration (PNEC)** No information available.  
**(PNEC)**

<b>Predicted No Effect Concentration (PNEC)</b>	
<b>Styrene (100-42-5)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.028 mg/l
Marine water	0.014 mg/l
Freshwater - intermittent	0.04 mg/l
Freshwater sediment	0.614 mg/kg dry weight
Marine sediment	0.307 mg/kg dry weight
Sewage treatment plant	5 mg/l
Soil	0.2 mg/kg dry weight

<b>Alkanes, C14-17, chloro (85535-85-9)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 µg/l
Marine water	0.2 µg/l
Microorganisms in sewage treatment	80 mg/l
Freshwater sediment	13 mg/kg dry weight
Marine sediment	2.6 mg/kg dry weight
Soil	11.9 mg/kg dry weight

<b>Titanium dioxide (13463-67-7)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Marine water	0.0184 mg/l
Freshwater sediment	1000 mg/kg
Freshwater	0.184 mg/l
Marine sediment	100 mg/kg
Soil	100 mg/kg
Microorganisms in sewage treatment	100 mg/l
Freshwater - intermittent	0.193 mg/l

<b>n-Butyl acetate (123-86-4)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.18 mg/l
Marine water	0.018 mg/l
Freshwater - intermittent	0.36 mg/l
Sewage treatment plant	35.6 mg/l
Freshwater sediment	0.981 mg/l
Marine sediment	0.0981 mg/l
Soil	0.0903 mg/l

<b>Ethyl acetate (141-78-6)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.26 mg/l
Marine water	0.026 mg/l
Freshwater sediment	1.25 mg/kg

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Marine sediment	0.125 mg/kg
Soil	0.24 mg/kg
Microorganisms in sewage treatment	650 mg/l

<b>2,2'-[(4-methylphenyl)imino]bisethanol (3077-12-1)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.026 mg/l
Marine water	0.003 mg/l
Sewage treatment plant	10 mg/l
Freshwater sediment	0.121 mg/kg dry weight
Marine sediment	0.012 mg/kg dry weight
Soil	0.009 mg/kg dry weight

<b>Cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	3 µg/l
Marine water	2.36 µg/l
Sewage treatment plant	0.37 µg/l
Freshwater sediment	9.5 mg/kg dry weight
Marine sediment	9.5 µg/l
Soil	10.9 mg/kg dry weight

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.  
**Skin and body protection** Suitable protective clothing.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

**Physical state** Liquid  
**Appearance** Paste  
**Colour** Grey  
**Odour** Aromatic  
**Odour threshold** No information available

Property	Values	Remarks • Method
<b>pH</b>	No data available	
<b>pH (as aqueous solution)</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	142 °C	
<b>Flash point</b>	35 °C	
<b>Evaporation rate</b>	No data available	
<b>Flammability</b>	Not applicable for liquids .	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapour pressure</b>	No data available	
<b>Relative vapour density</b>	No data available	
<b>Relative density</b>	No data available	
<b>Water solubility</b>	No data available	
<b>Solubility(ies)</b>	No data available	
<b>Partition coefficient</b>	No data available	

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Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	> 20.5
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

## 9.2. Other information

Solid content (%)	No information available
VOC Content (%)	
Density	1.892

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity	No information available.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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### Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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### 10.4. Conditions to avoid

Conditions to avoid	Heat, flames and sparks.
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### 10.5. Incompatible materials

Incompatible materials	None known based on information supplied.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal use conditions. Stable under recommended storage conditions.
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## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### Product Information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation.

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**Ingestion** Based on available data, the classification criteria are not met.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Prolonged contact may cause redness and irritation.

## Numerical measures of toxicity

### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 18,674.50 mg/kg  
ATEmix (inhalation-dust/mist) 27.80 mg/l  
ATEmix (inhalation-vapour) 122.20 mg/l

## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Styrene 100-42-5	>6000 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	LC50 (6h) > 2.13 mg/L (Mouse)
Alkanes, C14-17, chloro 85535-85-9	>4000 mg/kg (Rattus)	> 2000 mg/kg (Rattus)	
Titanium dioxide 13463-67-7	>10000 mg/kg (Rattus)	LD50 > 10000 mg/Kg	>5 mg/l
n-Butyl acetate 123-86-4	>10650 mg/kg (Rattus)	> 17600 mg/kg (Oryctolagus cuniculus)	=390 ppm (Rattus) 4 h
Ethyl acetate 141-78-6	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air
Dipropylene glycol monomethyl ether 34590-94-8	=5.35 g/kg (Rattus)	= 9500 mg/kg (Oryctolagus cuniculus)	
2,2'-[(4-methylphenyl)imino]bis ethanol 3077-12-1	LD50 =959 mg/Kg (Rattus) (OECD 401)	> 2000 mg/kg ( Rattus ) (OECD 401)	
Cobalt bis(2-ethylhexanoate) 136-52-7	3125 mg/Kg (Rattus) (OECD 425)	> 5000 mg/kg (Oryctolagus cuniculus)	>10 mg/L (Rattus) 1 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Chemical name	European Union
Titanium dioxide 13463-67-7	Carc. 2

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The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May cause harm to breast-fed children. Suspected of damaging fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Styrene 100-42-5	Repr. 2
Alkanes, C14-17, chloro 85535-85-9	Lact.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

H373 - May cause damage to the following organs through prolonged or repeated exposure: Hearing organs.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

#### Endocrine disrupting properties

### 11.2.2. Other information

**Other adverse effects** No information available.

**Note:** PC-ADH-8 Multi-component adhesives and sealants  
This product is part of a kit  
Please also refer to the SDS for the other component(s) of the kit

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Styrene 100-42-5	EC50 72 h 0.46 - 4.3 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 6.75 - 14.5 mg/L (Pimephales promelas static)	EC50 = 5.4 mg/L 5 min	EC50: 3.3 - 7.4mg/L (48h, Daphnia magna)		
Alkanes, C14-17, chloro 85535-85-9	-	LC50: >500mg/L (48h, Leuciscus idus)	-	EC50 (48h) = 0.007 mg/l (Daphnia magna) OECD 202		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l	-	-	-		

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	(Cyprinodon variegatus) OECD 203					
n-Butyl acetate 123-86-4	EC50: =674.7mg/L (72h, Desmodesmus subspicatus)	LC50 96 h 17 - 19 mg/L (Pimephales promelas flow-through)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50 48 h = 44 mg/L (Daphnia magna )		
Ethyl acetate 141-78-6	EC50: =3300mg/L (48h, Desmodesmus subspicatus)	LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas)	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560mg/L (48h, Daphnia magna)		
Dipropylene glycol monomethyl ether 34590-94-8	-	LC50: >10000mg/L (96h, Pimephales promelas)	-	LC50: =1919mg/L (48h, Daphnia magna)		
Cobalt bis(2-ethylhexanoate) 136-52-7	-	EC50 1.5 mg/L dissolved cobalt - read-across	-	-	1	

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Styrene 100-42-5	2.96	74
Alkanes, C14-17, chloro 85535-85-9	6	-
n-Butyl acetate 123-86-4	1.81	-
Ethyl acetate 141-78-6	0.6	30
Dipropylene glycol monomethyl ether 34590-94-8	-0.064	-

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

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## PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Styrene 100-42-5	The substance is not PBT / vPvB PBT assessment does not apply
Alkanes, C14-17, chloro 85535-85-9	PBT & vPvB
Titanium dioxide 13463-67-7	The substance is not PBT / vPvB PBT assessment does not apply
n-Butyl acetate 123-86-4	The substance is not PBT / vPvB PBT assessment does not apply
Ethyl acetate 141-78-6	The substance is not PBT / vPvB PBT assessment does not apply
Dipropylene glycol monomethyl ether 34590-94-8	The substance is not PBT / vPvB
2,2'-[(4-methylphenyl)imino]bisethanol 3077-12-1	The substance is not PBT / vPvB
Cobalt bis(2-ethylhexanoate) 136-52-7	The substance is not PBT / vPvB PBT assessment does not apply

## 12.6. Other adverse effects

**Other adverse effects** No information available.

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Styrene	Group I Chemical	High Exposure Concern
Alkanes, C14-17, chloro	Group III Chemical	-

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

### Land transport (ADR/RID)

**14.1 UN number or ID number** UN3269  
**14.2 Proper Shipping Name** Polyester resin kit, liquid base material  
**14.3 Transport hazard class(es)** 3  
**Labels** 3  
**14.4 Packing group** III  
**Description** UN3269, Polyester resin kit, liquid base material, 3, III, (E)  
**14.5 Environmental hazards** Yes  
**14.6 Special Provisions** 236, 340  
**Classification code** F3

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Tunnel restriction code (E)  
Limited quantity (LQ) 5 L

## IMDG

14.1 UN number or ID number UN3269  
14.2 Proper Shipping Name Polyester resin kit  
14.3 Transport hazard class(es) 3  
14.4 Packing group III  
Description UN3269, Polyester resin kit, 3, III, (35°C c.c.)  
14.5 Marine pollutant NP  
14.6 Special Provisions 236, 340  
Limited Quantity (LQ) 5 L  
EmS-No F-E, S-D  
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN3269  
14.2 Proper Shipping Name Polyester resin kit  
14.3 Transport hazard class(es) 3  
14.4 Packing group III  
Description UN3269, Polyester resin kit, 3, III  
14.5 Environmental hazards Yes  
14.6 Special Provisions A66, A163  
Limited quantity (LQ) 5 kg  
ERG Code 3L

## Section 15: REGULATORY INFORMATION

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

#### European Union

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No
Alkanes, C14-17, chloro	85535-85-9

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

#### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS  
P5b - FLAMMABLE LIQUIDS  
P5c - FLAMMABLE LIQUIDS

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009



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Not applicable

**Persistent Organic Pollutants**  
Not applicable

## National regulations

### France

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Styrene 100-42-5	RG 84
n-Butyl acetate 123-86-4	RG 84
Ethyl acetate 141-78-6	RG 84
Dipropylene glycol monomethyl ether 34590-94-8	RG 84
Cobalt bis(2-ethylhexanoate) 136-52-7	RG 65, RG 70

### Germany

#### Ordinance on Industrial Safety and Health - Germany - BetrSichV

Flammable liquid (R10), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 3

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

### Netherlands

#### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Chemical name	Netherlands - List of Carcinogens
Styrene 100-42-5	Development (Category 2)
Alkanes, C14-17, chloro 85535-85-9	Can be harmful via breastfeeding

### Denmark

**Registration number(s) (P-no.)** No information available

### Norway

**Registration number(s) (PRN-no.)** No information available

## 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

## **SECTION 16: Other information**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### **Full text of H-Statements referred to under section 3**

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

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H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
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  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351i - Suspected of causing cancer if inhaled  
H360F - May damage fertility  
H361d - Suspected of damaging the unborn child  
H362 - May cause harm to breast-fed children  
H372 - Causes 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

## Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

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## Indication of changes

**Revision note** Not applicable.

**Training Advice** No information available

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

## Disclaimer

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.

**End of Safety Data Sheet**