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

### 1.1. Product identifier

Product form : Mixture  
Trade name : VDP M8, VDP M10, VDP M10/1,5t, VDP M12, VDP M12/1,5t, VDP M14, VDP M16, VDP M16/1,5t, VDP M20, VDP M20/1,5t, VDP M22, VDP M24, VDP M24/1,5t, VDP M27, VDP M30  
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Building and construction work

#### 1.2.2. Uses advised against

No data available

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

B+BTec  
Munterij 8  
4762AH Zevenbergen - The Netherlands  
T +31 168 331 260 - F +31 168 33 12 80  
msds@bbtec.nl

### 1.4. Emergency telephone number

Emergency number : +31 168 33 12 60 (8h - 17h)


## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361d
STOT RE 1	H372
Aquatic Chronic 2	H411

Full text of H statements : see section 16

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## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word :

Danger

Hazardous ingredients :

Styrene; Dibenzoyl peroxide; maleic anhydride

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H361d - Suspected of damaging the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents and container to an approved waste disposal plant.

## 2.3. Other hazards

Other hazards :

PBT/vPvB data : This information is not available.


## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Styrene	(CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index) 601-026-00-0 (REACH-no) 01-2119457861-32	1 – 12,5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
ethylene dibenzoate	(CAS-No.) 94-49-5 (EC-No.) 202-338-6 (REACH-no) 01-2120759933-41-xxxx	1 – 2,55	Aquatic Chronic 2, H411

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Dibenzoyl peroxide	(CAS-No.) 94-36-0 (EC-No.) 202-327-6 (EC Index) 617-008-00-0 (REACH-no) 01-2119511472-50-xxxx	1 - <2,5	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index) 603-001-00-X (REACH-no) 01-2119433307-44-xxxx	<1	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6 (EC Index) 607-096-00-9 (REACH-no) 01-2119472428-31-xxxx	0 – 0,02	Acute Tox. 4 (Oral), H302 STOT RE 1, H372 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317

**Specific concentration limits:**

Substance name	Product identifier	Specific concentration limits
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index) 603-001-00-X (REACH-no) 01-2119433307-44-xxxx	( 3 ≤C < 10) STOT SE 2, H371 ( 10 ≤C < 100) STOT SE 1, H370
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6 (EC Index) 607-096-00-9 (REACH-no) 01-2119472428-31-xxxx	( 0,001 ≤C ≤ 100) Skin Sens. 1A, H317

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Additional advice : First aider: Pay attention to self-protection!. See also section 8. Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
- Inhalation : Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of doubt or persistent symptoms, consult always a physician.
- Skin contact : Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water . Call a physician if irritation develops or persists.
- Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician.
- Ingestion : Get medical advice/attention.

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

- Inhalation : Harmful if inhaled.
- Skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Eyes contact : Causes serious eye irritation.
- Ingestion : No information available.
- Chronic symptoms : Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child.


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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
- Unsuitable extinguishing media : Strong water jet.

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

- Specific hazards : Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

## **5.3. Advice for firefighters**

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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

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

#### **6.1.1. For non-emergency personnel**

- For non-emergency personnel : Evacuate personnel to a safe area. Use personal protective equipment as required. Reference to other sections 8. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Take precautionary measures against static discharges.

#### **6.1.2. For emergency responders**

- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

- Methods for cleaning up : Stop leak if safe to do so. Take up mechanically and collect in suitable container for disposal. Collect in closed and suitable containers for disposal. Dam up. Dispose of contaminated materials in accordance with current regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.


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

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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

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

- Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle and open container with care. After use replace the closing cap immediately. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with combustibles... See also section 10 .

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Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Remove contaminated clothing and shoes. Keep away from food, drink and animal feedingstuffs.

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

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feedingstuffs. Keep at temperatures below 25 °C. Keep away from heat. Protect from sunlight. Do not store near or with any of the incompatible materials listed in section 10.


### 7.3. Specific end use(s)

No data available


## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters


<b>Styrene (100-42-5)</b>		
Austria	MAK (OEL TWA)	85 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	20 ppm
Austria	MAK (OEL STEL)	340 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	80 ppm
Belgium	OEL TWA	108 mg/m <sup>3</sup>
Belgium	OEL TWA [ppm]	25 ppm
Belgium	OEL STEL	346 mg/m <sup>3</sup>
Belgium	OEL STEL [ppm]	80 ppm
Bulgaria	OEL TWA	85 mg/m <sup>3</sup>
Bulgaria	OEL STEL	215 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	430 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [2]	100 ppm
Croatia	KGVI (OEL STEL)	1080 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL) [ppm]	250 ppm
Czech Republic	PEL (OEL TWA)	100 mg/m <sup>3</sup>
Denmark	OEL C [ppm]	25 ppm
Denmark	OEL C	105 mg/m <sup>3</sup>
Estonia	OEL TWA	90 mg/m <sup>3</sup>
Estonia	OEL TWA [ppm]	20 ppm
Estonia	OEL STEL	200 mg/m <sup>3</sup>
Estonia	OEL STEL [ppm]	50 ppm
Finland	HTP (OEL TWA) [1]	86 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	430 mg/m <sup>3</sup>
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	100 mg/m <sup>3</sup> (indicative limit)
France	VME (OEL TWA) [ppm]	23,3 ppm (indicative limit)
France	VLE (OEL C/STEL)	200 mg/m <sup>3</sup> (indicative limit)
France	VLE (OEL C/STEL) [ppm]	46,6 ppm (indicative limit)

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<b>Styrene (100-42-5)</b>		
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	86 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	BLV	600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift 600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
Greece	OEL TWA	425 mg/m <sup>3</sup>
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	1050 mg/m <sup>3</sup>
Greece	OEL STEL [ppm]	250 ppm
Hungary	AK (OEL TWA)	86 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	50 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	85 mg/m <sup>3</sup>
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	170 mg/m <sup>3</sup>
Ireland	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	10 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA)	90 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA) [ppm]	20 ppm 10 ppm (for planning of new facilities or replacing the old ones)
Lithuania	TPRV (OEL STEL)	200 mg/m <sup>3</sup>
Lithuania	TPRV (OEL STEL) [ppm]	50 ppm
Poland	NDS (OEL TWA)	50 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	100 mg/m <sup>3</sup>
Portugal	OEL TWA [ppm]	20 ppm
Portugal	OEL STEL [ppm]	40 ppm
Romania	OEL TWA	50 mg/m <sup>3</sup>
Romania	OEL TWA [ppm]	12 ppm
Romania	OEL STEL	150 mg/m <sup>3</sup>
Romania	OEL STEL [ppm]	35 ppm
Slovakia	NPHV (OEL TWA) [1]	86 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	200 mg/m <sup>3</sup>
Slovenia	OEL TWA	86 mg/m <sup>3</sup>
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	172 mg/m <sup>3</sup>


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<b>Styrene (100-42-5)</b>		
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	86 mg/m <sup>3</sup> (endocrine disruptor)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (endocrine disruptor)
Spain	VLA-EC (OEL STEL)	172 mg/m <sup>3</sup>
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	43 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA) [ppm]	10 ppm
Sweden	KTV (OEL STEL)	86 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL) [ppm]	20 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	430 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	100 ppm
United Kingdom	WEL STEL (OEL STEL)	1080 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
Norway	Grenseverdi (OEL TWA) [1]	105 mg/m <sup>3</sup>
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	131,25 mg/m <sup>3</sup> (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	85 mg/m <sup>3</sup>
Switzerland	MAK (OEL TWA) [2]	20 ppm
Switzerland	KZGW (OEL STEL)	170 mg/m <sup>3</sup>
Switzerland	KZGW (OEL STEL) [ppm]	40 ppm
Australia	OES TWA [1]	213 mg/m <sup>3</sup>
Australia	OES TWA [2]	50 ppm
Australia	OES STEL	426 mg/m <sup>3</sup>
Australia	OES STEL [ppm]	100 ppm
Canada (Quebec)	VECD (OEL STEL)	426 mg/m <sup>3</sup>
Canada (Quebec)	VECD (OEL STEL) [ppm]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	213 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	20 ppm
USA - IDLH	IDLH [ppm]	700 ppm
USA - NIOSH	NIOSH REL TWA	215 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA [ppm]	50 ppm
USA - NIOSH	NIOSH REL STEL	425 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL STEL [ppm]	100 ppm
USA - OSHA	OSHA PEL TWA [2]	100 ppm
USA - OSHA	OSHA PEL C [ppm]	200 ppm
<b>Dibenzoyl peroxide (94-36-0)</b>		
Austria	MAK (OEL TWA)	5 mg/m <sup>3</sup> (inhalable fraction)
Austria	MAK (OEL STEL)	10 mg/m <sup>3</sup> (inhalable fraction)
Belgium	OEL TWA	5 mg/m <sup>3</sup>


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<b>Dibenzoyl peroxide (94-36-0)</b>		
Croatia	GVI (OEL TWA) [1]	5 mg/m <sup>3</sup>
Czech Republic	PEL (OEL TWA)	5 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	5 mg/m <sup>3</sup>
Estonia	OEL TWA	5 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [1]	5 mg/m <sup>3</sup>
Finland	HTP (OEL STEL)	10 mg/m <sup>3</sup>
France	VME (OEL TWA)	5 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	5 mg/m <sup>3</sup> (inhalable fraction)
Greece	OEL TWA	5 mg/m <sup>3</sup>
Hungary	AK (OEL TWA)	5 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	5 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	5 mg/m <sup>3</sup>
Ireland	OEL STEL	15 mg/m <sup>3</sup> (calculated)
Poland	NDS (OEL TWA)	5 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	10 mg/m <sup>3</sup>
Portugal	OEL TWA	5 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [1]	5 mg/m <sup>3</sup>
Slovenia	OEL TWA	5 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL	5 mg/m <sup>3</sup> (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	5 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL)	15 mg/m <sup>3</sup> (calculated)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m <sup>3</sup>
Norway	Korttidsverdi (OEL STEL)	10 mg/m <sup>3</sup> (value calculated)
Switzerland	MAK (OEL TWA) [1]	5 mg/m <sup>3</sup> (inhalable dust)
Switzerland	KZGW (OEL STEL)	5 mg/m <sup>3</sup> (inhalable dust)
Australia	OES TWA [1]	5 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA)	5 mg/m <sup>3</sup>
USA - ACGIH	ACGIH OEL TWA	5 mg/m <sup>3</sup>
USA - IDLH	IDLH	1500 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA	5 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL TWA [1]	5 mg/m <sup>3</sup>
<b>methanol (67-56-1)</b>		
EU	IOEL TWA	260 mg/m <sup>3</sup>
EU	IOEL TWA [ppm]	200 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	260 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	200 ppm
Austria	MAK (OEL STEL)	1040 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	800 ppm
Belgium	OEL TWA	266 mg/m <sup>3</sup>




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<b>methanol (67-56-1)</b>		
Belgium	OEL TWA [ppm]	200 ppm
Belgium	OEL STEL	333 mg/m <sup>3</sup>
Belgium	OEL STEL [ppm]	250 ppm
Bulgaria	OEL TWA	260 mg/m <sup>3</sup>
Bulgaria	OEL TWA [ppm]	200 ppm
Croatia	GVI (OEL TWA) [1]	260 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [2]	200 ppm
Cyprus	OEL TWA	260 mg/m <sup>3</sup>
Cyprus	OEL TWA [ppm]	200 ppm
Czech Republic	PEL (OEL TWA)	250 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	260 mg/m <sup>3</sup>
Denmark	OEL TWA [2]	200 ppm
Estonia	OEL TWA	250 mg/m <sup>3</sup>
Estonia	OEL TWA [ppm]	200 ppm
Estonia	OEL STEL	350 mg/m <sup>3</sup>
Estonia	OEL STEL [ppm]	250 ppm
Finland	HTP (OEL TWA) [1]	270 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	200 ppm
Finland	HTP (OEL STEL)	330 mg/m <sup>3</sup>
Finland	HTP (OEL STEL) [ppm]	250 ppm
France	VME (OEL TWA)	260 mg/m <sup>3</sup> (restrictive limit)
France	VME (OEL TWA) [ppm]	200 ppm (restrictive limit)
France	VLE (OEL C/STEL)	1300 mg/m <sup>3</sup>
France	VLE (OEL C/STEL) [ppm]	1000 ppm
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	130 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	BLV	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
Gibraltar	OEL TWA	260 mg/m <sup>3</sup>
Gibraltar	OEL TWA [ppm]	200 ppm
Greece	OEL TWA	260 mg/m <sup>3</sup>
Greece	OEL TWA [ppm]	200 ppm
Greece	OEL STEL	325 mg/m <sup>3</sup>
Greece	OEL STEL [ppm]	250 ppm
Hungary	AK (OEL TWA)	260 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	260 mg/m <sup>3</sup>
Ireland	OEL TWA [2]	200 ppm

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<b>methanol (67-56-1)</b>		
Ireland	OEL STEL	780 mg/m <sup>3</sup> (calculated)
Ireland	OEL STEL [ppm]	600 ppm (calculated)
Italy	OEL TWA	260 mg/m <sup>3</sup>
Italy	OEL TWA [ppm]	200 ppm
Latvia	OEL TWA	260 mg/m <sup>3</sup>
Latvia	OEL TWA [ppm]	200 ppm
Lithuania	IPRV (OEL TWA)	260 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA) [ppm]	200 ppm
Luxembourg	OEL TWA	260 mg/m <sup>3</sup>
Luxembourg	OEL TWA [ppm]	200 ppm
Malta	OEL TWA	260 mg/m <sup>3</sup>
Malta	OEL TWA [ppm]	200 ppm
Netherlands	MAC-TGG (OEL TWA)	133 mg/m <sup>3</sup>
Poland	NDS (OEL TWA)	100 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	300 mg/m <sup>3</sup>
Portugal	OEL TWA	260 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA [ppm]	200 ppm (indicative limit value)
Portugal	OEL STEL [ppm]	250 ppm
Romania	OEL TWA	260 mg/m <sup>3</sup>
Romania	OEL TWA [ppm]	200 ppm
Slovakia	NPHV (OEL TWA) [1]	260 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [2]	200 ppm
Slovenia	OEL TWA	260 mg/m <sup>3</sup>
Slovenia	OEL TWA [ppm]	200 ppm
Slovenia	OEL STEL	1040 mg/m <sup>3</sup>
Slovenia	OEL STEL [ppm]	800 ppm
Spain	VLA-ED (OEL TWA) [1]	266 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	200 ppm (indicative limit value)
Sweden	NGV (OEL TWA)	250 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA) [ppm]	200 ppm
Sweden	KTV (OEL STEL)	350 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL) [ppm]	250 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	266 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	200 ppm
United Kingdom	WEL STEL (OEL STEL)	333 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
Norway	Grenseverdi (OEL TWA) [1]	130 mg/m <sup>3</sup>
Norway	Grenseverdi (OEL TWA) [2]	100 ppm
Norway	Korttidsverdi (OEL STEL)	162,5 mg/m <sup>3</sup> (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	125 ppm (value calculated)

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<b>methanol (67-56-1)</b>		
Switzerland	MAK (OEL TWA) [1]	260 mg/m <sup>3</sup>
Switzerland	MAK (OEL TWA) [2]	200 ppm
Switzerland	KZGW (OEL STEL)	1040 mg/m <sup>3</sup>
Switzerland	KZGW (OEL STEL) [ppm]	800 ppm
Australia	OES TWA [1]	262 mg/m <sup>3</sup>
Australia	OES TWA [2]	200 ppm
Australia	OES STEL	328 mg/m <sup>3</sup>
Australia	OES STEL [ppm]	250 ppm
Canada (Quebec)	VECD (OEL STEL)	328 mg/m <sup>3</sup>
Canada (Quebec)	VECD (OEL STEL) [ppm]	250 ppm
Canada (Quebec)	VEMP (OEL TWA)	262 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA) [ppm]	200 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	200 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	250 ppm
USA - IDLH	IDLH [ppm]	6000 ppm
USA - NIOSH	NIOSH REL TWA	260 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA - NIOSH	NIOSH REL STEL	325 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA - OSHA	OSHA PEL TWA [1]	260 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL TWA [2]	200 ppm
<b>maleic anhydride (108-31-6)</b>		
Austria	MAK (OEL TWA)	0,4 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	0,1 ppm
Austria	MAK (OEL STEL)	0,8 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	0,2 ppm
Belgium	OEL TWA	0,01 mg/m <sup>3</sup> (aerosol and vapor)
Belgium	OEL TWA [ppm]	0,0025 ppm (aerosol and vapor)
Bulgaria	OEL TWA	1 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	0,41 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [2]	0,1 ppm
Croatia	KGVI (OEL STEL)	0,8 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL) [ppm]	0,2 ppm
Czech Republic	PEL (OEL TWA)	1 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	0,4 mg/m <sup>3</sup>
Denmark	OEL TWA [2]	0,1 ppm
Estonia	OEL TWA	1,2 mg/m <sup>3</sup>
Estonia	OEL TWA [ppm]	0,3 ppm
Estonia	OEL STEL	2,5 mg/m <sup>3</sup>
Estonia	OEL STEL [ppm]	0,6 ppm
Finland	HTP (OEL TWA) [1]	0,41 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	0,1 ppm

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maleic anhydride (108-31-6)		
Finland	OEL C	0,81 mg/m <sup>3</sup>
Finland	OEL C [ppm]	0,2 ppm
France	VLE (OEL C/STEL)	1 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	0,081 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	0,02 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA	1 mg/m <sup>3</sup>
Greece	OEL TWA [ppm]	0,25 ppm
Hungary	AK (OEL TWA)	0,08 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	0,4 mg/m <sup>3</sup>
Ireland	OEL TWA [2]	0,01 ppm (inhalable fraction and vapour)
Ireland	OEL STEL [ppm]	0,03 ppm (calculated-inhalable fraction and vapour)
Latvia	OEL TWA	1 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA)	1,2 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA) [ppm]	0,3 ppm
Lithuania	TPRV (OEL STEL)	2,5 mg/m <sup>3</sup>
Lithuania	TPRV (OEL STEL) [ppm]	0,6 ppm
Poland	NDS (OEL TWA)	0,5 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	1 mg/m <sup>3</sup>
Portugal	OEL TWA	0,01 mg/m <sup>3</sup>
Romania	OEL TWA	1 mg/m <sup>3</sup>
Romania	OEL TWA [ppm]	0,25 ppm
Romania	OEL STEL	3 mg/m <sup>3</sup>
Romania	OEL STEL [ppm]	0,75 ppm
Slovakia	NPHV (OEL TWA) [1]	0,41 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [2]	0,1 ppm
Slovenia	OEL TWA	0,41 mg/m <sup>3</sup>
Slovenia	OEL TWA [ppm]	0,1 ppm
Slovenia	OEL STEL	0,41 mg/m <sup>3</sup>
Slovenia	OEL STEL [ppm]	0,1 ppm
Spain	VLA-ED (OEL TWA) [1]	0,4 mg/m <sup>3</sup>
Spain	VLA-ED (OEL TWA) [2]	0,1 ppm
Sweden	NGV (OEL TWA)	0,2 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA) [ppm]	0,05 ppm
Sweden	KTV (OEL STEL)	0,4 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL) [ppm]	0,1 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	1 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL)	3 mg/m <sup>3</sup>


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maleic anhydride (108-31-6)		
Norway	Grenseverdi (OEL TWA) [1]	0,8 mg/m <sup>3</sup>
Norway	Grenseverdi (OEL TWA) [2]	0,2 ppm
Norway	Korttidsverdi (OEL STEL)	2,4 mg/m <sup>3</sup> (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	0,6 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	0,4 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	0,1 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	0,4 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	0,1 ppm (aerosol, vapour)
Australia	OES TWA [1]	1 mg/m <sup>3</sup>
Australia	OES TWA [2]	0,25 ppm
Canada (Quebec)	VEMP (OEL TWA)	1 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA) [ppm]	0,25 ppm
USA - ACGIH	ACGIH OEL TWA	0,01 mg/m <sup>3</sup> (inhalable fraction and vapor)
USA - IDLH	IDLH	10 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA	1 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA [ppm]	0,25 ppm
USA - OSHA	OSHA PEL TWA [1]	1 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL TWA [2]	0,25 ppm

Additional information : Concentration measurement in air. Personal monitoring

## 8.2. Exposure controls

Engineering measure(s)	: Use only in area provided with appropriate exhaust ventilation. Take precautionary measures against static discharge. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Butyl caoutchouc (butyl rubber) . Breakthrough time : > 120 min. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Safety glasses (EN 166)
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: A (EN 141)
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation.

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## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: capsules.
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: < 55 °C Resin
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: No data available. Water: Insoluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour. Reference to other sections 10.4 & 10.5.

### 10.2. Chemical stability


The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

heat, UV: Polymerisation can occur.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See also section 7 : Handling and storage .

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#### 10.5. Incompatible materials

Strong oxidizing agents . Strong bases . Strong acids . See also section 7 : Handling and storage .

#### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. (COx). Reference to other sections 5.2.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

##### Styrene (100-42-5)

LD50/oral/rat	1000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	11,8 mg/l

##### Dibenzoyl peroxide (94-36-0)

LD50/oral/rat	7710 mg/kg
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##### methanol (67-56-1)

LD50/oral/rat	6200 mg/kg (ATE: 100 mg/kg)
LD50/dermal/rabbit	15840 mg/kg ((ATE: 300 mg/kg)
LC50/inhalation/4h/rat (ppm)	8h 128,2 ppm (ATE: 3 mg/l ((Vapours)

##### maleic anhydride (108-31-6)

LD50/oral/rat	1090 mg/kg (OECD 401)
LD50/dermal/rabbit	2620 mg/kg
LC50/inhalation/4h/rat	0,16 mg/l/4h

##### ethylene dibenzoate (94-49-5)

LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation.

Styrene :  
Causes skin irritation.

pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.

Styrene /  
dibenzoyl peroxide; benzoyl peroxide :  
Causes serious eye irritation.

pH: No data available

Respiratory or skin sensitisation : May cause an allergic skin reaction.


dibenzoyl peroxide; benzoyl peroxide /  
maleic anhydride :  
May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Suspected of damaging the unborn child.

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

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STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.  
 Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	1900 – 2500 mm <sup>2</sup> /s Resin

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.


## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Toxic to aquatic life with long lasting effects.

<b>Styrene (100-42-5)</b>	
LC50 - Fish [1]	3,24 – 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3,3 – 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 - Fish [2]	19,03 – 33,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Other aquatic organisms [2]	500 mg/l Bacteria
EC50 - Other aquatic organisms [2]	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
NOEC (acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (additional information)	NOEC, Daphnia : 1,01 mg/l (21d)
<b>Dibenzoyl peroxide (94-36-0)</b>	
LC50 - Fish [1]	0,0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
<b>methanol (67-56-1)</b>	
LC50 - Fish [1]	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	> 10000 mg/l (48h - Daphnia magna - DIN 38412 TEIL 11)
EC50 - Other aquatic organisms [1]	22000 mg/l (96h - Pseudokirchnerella subcapitata - OECD 201)
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC(200h), fish, Chronic, Oryzias latipes (Ricefish)	7900 mg/l
<b>maleic anhydride (108-31-6)</b>	
LC50 - Fish [1]	75 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	42,81 mg/l (48h, OECD 202)
ErC50 algae	74,34 (72h, Pseudokirchneriella subcapitata), OECD 201) 29 mg/l (Species: Desmodesmus subspicatus)
NOEC (chronic)	10 mg/l (10 days, Daphnia magna)
<b>ethylene dibenzoate (94-49-5)</b>	
LC50 - Fish [1]	> 0,434 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	1,4 mg/l
EC50 - Other aquatic organisms [1]	> 1280 mg/l Activated sludge
ErC50 algae	> 0,87 mg/l Pseudokirchneriella subcapitata (green algae)
NOEC chronic fish	0,073 mg/l Brachydanio rerio (zebra-fish)
NOEC chronic algae	0,045 mg/l Pseudokirchneriella subcapitata (green algae)



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#### 12.2. Persistence and degradability

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Persistence and degradability	No data available.
<b>Styrene (100-42-5)</b>	
Biodegradation	Readily biodegradable
<b>Dibenzoyl peroxide (94-36-0)</b>	
Persistence and degradability	Readily biodegradable.
<b>maleic anhydride (108-31-6)</b>	
Persistence and degradability	Readily biodegradable (OECD 301B).
<b>ethylene dibenzoate (94-49-5)</b>	
Persistence and degradability	Readily biodegradable.


#### 12.3. Bioaccumulative potential

<b>VDP M8, VDP M10, VDP M10/1,5t, VDP M12, VDP M12/1,5t, VDP M14, VDP M16, VDP M16/1,5t, VDP M20, VDP M20/1,5t, VDP M22, VDP M24, VDP M24/1,5t, VDP M27, VDP M30</b>	
Partition coefficient n-octanol/water	No data available
<b>Styrene (100-42-5)</b>	
BCF - Fish [1]	13,5
Partition coefficient n-octanol/water	2,95
Bioaccumulative potential	Does not bioaccumulate.
<b>Dibenzoyl peroxide (94-36-0)</b>	
Bioaccumulative potential	Low potential.
<b>methanol (67-56-1)</b>	
BCF - Fish [1]	< 10
Partition coefficient n-octanol/water	-0,77
<b>maleic anhydride (108-31-6)</b>	
BCF - Fish [1]	(hydrolysis)
Partition coefficient n-octanol/water (Log Kow)	- 2,61 (19,8 °C, OECD 107)
<b>ethylene dibenzoate (94-49-5)</b>	
Bioconcentration factor (BCF)	2,74
Bioaccumulative potential	Low potential.

#### 12.4. Mobility in soil

<b>VDP M8, VDP M10, VDP M10/1,5t, VDP M12, VDP M12/1,5t, VDP M14, VDP M16, VDP M16/1,5t, VDP M20, VDP M20/1,5t, VDP M22, VDP M24, VDP M24/1,5t, VDP M27, VDP M30</b>	
Ecology - soil	No data available.
<b>Styrene (100-42-5)</b>	
Partition coefficient n-octanol/water (Log Koc)	352 (20°C)
<b>maleic anhydride (108-31-6)</b>	
Partition coefficient n-octanol/water (Log Koc)	1,63

#### 12.5. Results of PBT and vPvB assessment

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		Supersedes : 23/03/2017

Component	
ethylene dibenzoate (94-49-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Dibenzoyl peroxide (94-36-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methanol (67-56-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
maleic anhydride (108-31-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

Additional information : No information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. See Section 7 for information on safe handling . Do not allow to enter into surface water or drains. Refer to manufacturer/supplier for information on recovery/recycling . Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

Additional information : In accordance with local and national regulations.


Further ecological information : Should not be released into the environment.


European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:  
150110\* - packaging containing residues of or contaminated by dangerous substances .  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	1866	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	Resin solution (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)
<b>Transport document description</b>				
		UN 1866 Resin solution (Styrene), 3, III		
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3

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ADR	IMDG	IATA	ADN	RID
Not applicable	Not applicable		Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	III	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.				
No supplementary information available				

#### **14.6. Special precautions for user**

- Special precautions for user : No data available
- Overland transport**  
Transport regulations (ADR) : No good of class 3 according to ADR/RID chapter 2.2.3.1.5
- Transport by sea**  
Transport regulations (IMDG) : If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies:  
Not regulated as a hazardous material.  
State on shipping documents: "Transport in accordance with 2.3.2.5 of the IMDG code."
- Air transport**  
PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y344  
PCA limited quantity max net quantity (IATA) : 10L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L
- Inland waterway transport**  
Transport regulations (ADN) : Not applicable (cf. 2.2.3.1.5)
- Rail transport**  
Transport regulations (RID) : No good of class 3 according to ADR/RID chapter 2.2.3.1.5

#### **14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Code: IBC : No data available.

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## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Styrene ; methanol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Styrene ; methanol
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Styrene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Styrene ; methanol
69. Methanol	methanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances


#### 15.1.2. National regulations

Germany :

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : 1.2.5.2 - P5b, 1.3.2 - E2

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	
4511.text	Dangereux pour l'environnement aquatique de catégorie chronique 2.		
4511.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	A	1

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4511.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 100 t mais inférieure à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	DC	
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#### Germany

Regulatory reference	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)	
Risk classification according to VbF	: A II - Liquids with a flashpoint between 21°C and 55°C	
German storage class (LGK)	: LGK 3 - Flammable liquids	
Hazardous Incident Ordinance (12. BImSchV)	: Listed in the 12. BImSchV (Annex I) under: 1.2.5.2 Quantity threshold for operational area under § 1 para. 1	
	- Sentence 1: 50000 kg	
	- Sentence 2: 200000 kg	

#### Netherlands

Waterbezwaarlijkheid	: A (2) - Vergiftig voor in water levende organismen kan in het aquatische milieu op lange termijn schadelijke effecten veroorzaken	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed	
SZW-lijst van mutagene stoffen	: None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: Styrene, methanol are listed	

#### Denmark

Class for fire hazard	: Class II-1	
Store unit	: 5 liter	
Classification remarks	: R10 <H226;H315;H317;H319;H332;H361d;H372;H411>; Emergency management guidelines for the storage of flammable liquids must be followed	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product	


#### Norway

This safety datasheet has been prepared according to Norwegian legislation.

#### Poland

This safety datasheet has been prepared according to Polish legislation.

: Ustawa z dnia 25 lutego 2011 r. o substancjach chemicznych i ich mieszaninach (Dz. U. Nr 63, poz. 322).  
Ustawa z dnia 29 lipca 2005 r. o przeciwdziałaniu narkomanii - tekst ujednoczony  
Ustawa z dnia 13 września 2002 r. o produktach biobójczych - tekst ujednoczony  
Ustawa z dnia 20 kwietnia 2004 r. o zmianie i uchyleniu niektórych ustaw w związku z uzyskaniem przez Rzeczpospolitą Polską członkostwa w Unii Europejskiej - Tzw. "Ustawa Horyzontalna" - w jej art. 48 zapisano zmiany do ustawy o substancjach i preparatach chemicznych  
Ustawa z dnia 18 grudnia 2003 r. o ochronie roślin - Obwieszczenie Marszałka Sejmu Rzeczypospolitej Polskiej z dnia 25 czerwca 2008 r. w sprawie ogłoszenia jednolitego tekstu ustawy o ochronie roślin (Dz.U. Nr 133, poz. 849)

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Ustawa z dnia 11 maja 2001 r. o opakowaniach i odpadach opakowaniowych - tekst ujednolicony - Ustawa ta nie należy do zakresu zadań Biura, jednak zamieszczamy ją tutaj ze względu na liczne zapytania od Państwa.  
Kodeks pracy - tekst ujednolicony - Ustawa z dnia 26 czerwca 1974 r. Kodeks Pracy. Obowiązki pracodawcy odnoszące się do substancji i preparatów chemicznych znajdują się w rozdziale V (Czynniki oraz procesy stwarzające szczególne zagrożenie dla zdrowia lub życia) Działu dziesiątego (Bezpieczeństwo i Higiena Pracy) Kodeksu Pracy.

## 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

<b>For the following substances of this mixture a chemical safety assessment has been carried out</b>
Styrene Dibenzoyl peroxide methanol maleic anhydride ethylene dibenzoate


## SECTION 16: Other information

Indication of changes:

1.1	Trade name	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Label elements	Modified	
3.2	Composition/information on ingredients	Modified	
4.2	Inhalation	Modified	
4.2	Chronic symptoms	Modified	
5.2	Special hazards arising from the substance or mixture	Modified	
5.3	Advice for firefighters	Modified	
8.1	Control parameters	Modified	
10.6	Hazardous decomposition products	Modified	
11.1	Toxicological information	Modified	
12.	Ecological information	Modified	
15.1	Regulatory information	Modified	
15.2	Chemical safety assessment	Modified	
16	Other information	Modified	

Abbreviations and acronyms:

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	EC50 = Median Effective Concentration

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	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	Not applicable
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Additional information : Manufacturer/Supplier.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).  
Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. B	Organic Peroxides, Type B
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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