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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 : HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Building and construction work

1.2.2. Uses advised against

No additional information 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
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- and EUH-statements: see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word : Danger
Contains : Styrene, Dibenzoyl peroxide, maleic anhydride
Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.

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Precautionary statements (CLP) :

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H361d - Suspected of damaging the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

: 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 to an approved waste disposal plant.

2.3. Other hazards

Other hazards : Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

Component	
Styrene (100-42-5)	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
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
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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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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-xxxx	5 – 25	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
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	0 – 1,25	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 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 – 0,025	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- and EUH-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!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: No adverse effects are expected. May be irritating.
Skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Eyes contact	: Causes serious eye irritation.
Ingestion	: Harmful if swallowed.
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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO ₂), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

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. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂).

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 unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.
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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. Concerning personal protective equipment to use, see section 8.
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6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

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 : Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible materials : Strong acids, strong oxidants. Strong bases.

Storage temperature : < 25 °C

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Keep out of direct sunlight.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep container tight closed.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

Building and construction work.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Styrene (100-42-5)		
Austria	MAK (OEL TWA)	85 mg/m ³

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Styrene (100-42-5)		
Austria	MAK (OEL TWA) [ppm]	20 ppm
Austria	MAK (OEL STEL)	340 mg/m ³
Austria	MAK (OEL STEL) [ppm]	80 ppm
Belgium	OEL TWA	108 mg/m ³
Belgium	OEL TWA [ppm]	25 ppm
Belgium	OEL STEL	346 mg/m ³
Belgium	OEL STEL [ppm]	80 ppm
Bulgaria	OEL TWA	85 mg/m ³
Bulgaria	OEL STEL	215 mg/m ³
Croatia	GVI (OEL TWA) [1]	430 mg/m ³
Croatia	GVI (OEL TWA) [2]	100 ppm
Croatia	KGVI (OEL STEL)	1080 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	250 ppm
Czech Republic	PEL (OEL TWA)	100 mg/m ³
Denmark	OEL C [ppm]	25 ppm
Denmark	OEL C	105 mg/m ³
Estonia	OEL TWA	90 mg/m ³
Estonia	OEL TWA [ppm]	20 ppm
Estonia	OEL STEL	200 mg/m ³
Estonia	OEL STEL [ppm]	50 ppm
Finland	HTP (OEL TWA) [1]	86 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	430 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	100 mg/m ³ (indicative limit)
France	VME (OEL TWA) [ppm]	23,3 ppm (indicative limit)
France	VLE (OEL C/STEL)	200 mg/m ³ (indicative limit)
France	VLE (OEL C/STEL) [ppm]	46,6 ppm (indicative limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	86 mg/m ³ (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	Biological limit value	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 ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	1050 mg/m ³
Greece	OEL STEL [ppm]	250 ppm

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Styrene (100-42-5)		
Hungary	AK (OEL TWA)	86 mg/m ³
Hungary	CK (OEL STEL)	50 mg/m ³
Ireland	OEL TWA [1]	85 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	170 mg/m ³
Ireland	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	10 mg/m ³
Lithuania	IPRV (OEL TWA)	90 mg/m ³
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 ³
Lithuania	TPRV (OEL STEL) [ppm]	50 ppm
Poland	NDS (OEL TWA)	50 mg/m ³
Poland	NDSch (OEL STEL)	100 mg/m ³
Portugal	OEL TWA [ppm]	20 ppm
Portugal	OEL STEL [ppm]	40 ppm
Romania	OEL TWA	50 mg/m ³
Romania	OEL TWA [ppm]	12 ppm
Romania	OEL STEL	150 mg/m ³
Romania	OEL STEL [ppm]	35 ppm
Slovakia	NPHV (OEL TWA) [1]	86 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	200 mg/m ³
Slovenia	OEL TWA	86 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	172 mg/m ³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	86 mg/m ³ (endocrine disruptor)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (endocrine disruptor)
Spain	VLA-EC (OEL STEL)	172 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	43 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	10 ppm
Sweden	KTV (OEL STEL)	86 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	20 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	430 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	100 ppm
United Kingdom	WEL STEL (OEL STEL)	1080 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
Norway	Grenseverdi (OEL TWA) [1]	105 mg/m ³

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Styrene (100-42-5)		
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	131,25 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	85 mg/m ³
Switzerland	MAK (OEL TWA) [2]	20 ppm
Switzerland	KZGW (OEL STEL)	170 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	40 ppm
Australia	OES TWA [1]	213 mg/m ³
Australia	OES TWA [2]	50 ppm
Australia	OES STEL	426 mg/m ³
Australia	OES STEL [ppm]	100 ppm
Canada (Quebec)	VECD (OEL STEL)	426 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	213 mg/m ³
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 ³
USA - NIOSH	NIOSH REL TWA [ppm]	50 ppm
USA - NIOSH	NIOSH REL STEL	425 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	100 ppm
USA - OSHA	OSHA PEL TWA [2]	100 ppm
USA - OSHA	OSHA PEL C [ppm]	200 ppm
Dibenzoyl peroxide (94-36-0)		
Austria	MAK (OEL TWA)	5 mg/m ³ (inhalable fraction)
Austria	MAK (OEL STEL)	10 mg/m ³ (inhalable fraction)
Belgium	OEL TWA	5 mg/m ³
Croatia	GVI (OEL TWA) [1]	5 mg/m ³
Czech Republic	PEL (OEL TWA)	5 mg/m ³
Denmark	OEL TWA [1]	5 mg/m ³
Estonia	OEL TWA	5 mg/m ³
Finland	HTP (OEL TWA) [1]	5 mg/m ³
Finland	HTP (OEL STEL)	10 mg/m ³
France	VME (OEL TWA)	5 mg/m ³
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	5 mg/m ³ (inhalable fraction)
Greece	OEL TWA	5 mg/m ³
Hungary	AK (OEL TWA)	5 mg/m ³
Hungary	CK (OEL STEL)	5 mg/m ³
Ireland	OEL TWA [1]	5 mg/m ³
Ireland	OEL STEL	15 mg/m ³ (calculated)

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Dibenzoyl peroxide (94-36-0)		
Poland	NDS (OEL TWA)	5 mg/m ³
Poland	NDSch (OEL STEL)	10 mg/m ³
Portugal	OEL TWA	5 mg/m ³
Slovakia	NPHV (OEL TWA) [1]	5 mg/m ³
Slovenia	OEL TWA	5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL	5 mg/m ³ (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	5 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [1]	5 mg/m ³
United Kingdom	WEL STEL (OEL STEL)	15 mg/m ³ (calculated)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m ³
Norway	Korttidsverdi (OEL STEL)	10 mg/m ³ (value calculated)
Switzerland	MAK (OEL TWA) [1]	5 mg/m ³ (inhalable dust)
Switzerland	KZGW (OEL STEL)	5 mg/m ³ (inhalable dust)
Australia	OES TWA [1]	5 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	5 mg/m ³
USA - ACGIH	ACGIH OEL TWA	5 mg/m ³
USA - IDLH	IDLH	1500 mg/m ³
USA - NIOSH	NIOSH REL TWA	5 mg/m ³
USA - OSHA	OSHA PEL TWA [1]	5 mg/m ³
methanol (67-56-1)		
EU	IOEL TWA	260 mg/m ³
EU	IOEL TWA [ppm]	200 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	260 mg/m ³
Austria	MAK (OEL TWA) [ppm]	200 ppm
Austria	MAK (OEL STEL)	1040 mg/m ³
Austria	MAK (OEL STEL) [ppm]	800 ppm
Belgium	OEL TWA	266 mg/m ³
Belgium	OEL TWA [ppm]	200 ppm
Belgium	OEL STEL	333 mg/m ³
Belgium	OEL STEL [ppm]	250 ppm
Bulgaria	OEL TWA	260 mg/m ³
Bulgaria	OEL TWA [ppm]	200 ppm
Croatia	GVI (OEL TWA) [1]	260 mg/m ³
Croatia	GVI (OEL TWA) [2]	200 ppm
Cyprus	OEL TWA	260 mg/m ³
Cyprus	OEL TWA [ppm]	200 ppm
Czech Republic	PEL (OEL TWA)	250 mg/m ³
Denmark	OEL TWA [1]	260 mg/m ³
Denmark	OEL TWA [2]	200 ppm
Estonia	OEL TWA	250 mg/m ³
Estonia	OEL TWA [ppm]	200 ppm

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methanol (67-56-1)		
Estonia	OEL STEL	350 mg/m ³
Estonia	OEL STEL [ppm]	250 ppm
Finland	HTP (OEL TWA) [1]	270 mg/m ³
Finland	HTP (OEL TWA) [2]	200 ppm
Finland	HTP (OEL STEL)	330 mg/m ³
Finland	HTP (OEL STEL) [ppm]	250 ppm
France	VME (OEL TWA)	260 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	200 ppm (restrictive limit)
France	VLE (OEL C/STEL)	1300 mg/m ³
France	VLE (OEL C/STEL) [ppm]	1000 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	130 mg/m ³ (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	Biological limit value	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 ³
Gibraltar	OEL TWA [ppm]	200 ppm
Greece	OEL TWA	260 mg/m ³
Greece	OEL TWA [ppm]	200 ppm
Greece	OEL STEL	325 mg/m ³
Greece	OEL STEL [ppm]	250 ppm
Hungary	AK (OEL TWA)	260 mg/m ³
Ireland	OEL TWA [1]	260 mg/m ³
Ireland	OEL TWA [2]	200 ppm
Ireland	OEL STEL	780 mg/m ³ (calculated)
Ireland	OEL STEL [ppm]	600 ppm (calculated)
Italy	OEL TWA	260 mg/m ³
Italy	OEL TWA [ppm]	200 ppm
Latvia	OEL TWA	260 mg/m ³
Latvia	OEL TWA [ppm]	200 ppm
Lithuania	IPRV (OEL TWA)	260 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	200 ppm
Luxembourg	OEL TWA	260 mg/m ³
Luxembourg	OEL TWA [ppm]	200 ppm
Malta	OEL TWA	260 mg/m ³
Malta	OEL TWA [ppm]	200 ppm
Netherlands	TGG-8u (OEL TWA)	133 mg/m ³

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methanol (67-56-1)		
Poland	NDS (OEL TWA)	100 mg/m ³
Poland	NDSch (OEL STEL)	300 mg/m ³
Portugal	OEL TWA	260 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	200 ppm (indicative limit value)
Portugal	OEL STEL [ppm]	250 ppm
Romania	OEL TWA	260 mg/m ³
Romania	OEL TWA [ppm]	200 ppm
Slovakia	NPHV (OEL TWA) [1]	260 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	200 ppm
Slovenia	OEL TWA	260 mg/m ³
Slovenia	OEL TWA [ppm]	200 ppm
Slovenia	OEL STEL	1040 mg/m ³
Slovenia	OEL STEL [ppm]	800 ppm
Spain	VLA-ED (OEL TWA) [1]	266 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	200 ppm (indicative limit value)
Sweden	NGV (OEL TWA)	250 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	200 ppm
Sweden	KTV (OEL STEL)	350 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	250 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	266 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	200 ppm
United Kingdom	WEL STEL (OEL STEL)	333 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
Norway	Grenseverdi (OEL TWA) [1]	130 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	100 ppm
Norway	Korttidsverdi (OEL STEL)	162,5 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	150 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	260 mg/m ³
Switzerland	MAK (OEL TWA) [2]	200 ppm
Switzerland	KZGW (OEL STEL)	520 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	400 ppm
Australia	OES TWA [1]	262 mg/m ³
Australia	OES TWA [2]	200 ppm
Australia	OES STEL	328 mg/m ³
Australia	OES STEL [ppm]	250 ppm
Canada (Quebec)	VECD (OEL STEL)	328 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	250 ppm
Canada (Quebec)	VEMP (OEL TWA)	262 mg/m ³
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

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methanol (67-56-1)		
USA - NIOSH	NIOSH REL TWA	260 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA - NIOSH	NIOSH REL STEL	325 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA - OSHA	OSHA PEL TWA [1]	260 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	200 ppm
maleic anhydride (108-31-6)		
Austria	MAK (OEL TWA)	0,4 mg/m ³
Austria	MAK (OEL TWA) [ppm]	0,1 ppm
Austria	MAK (OEL STEL)	0,8 mg/m ³
Austria	MAK (OEL STEL) [ppm]	0,2 ppm
Belgium	OEL TWA	0,01 mg/m ³ (aerosol and vapor)
Belgium	OEL TWA [ppm]	0,0025 ppm (aerosol and vapor)
Bulgaria	OEL TWA	1 mg/m ³
Croatia	GVI (OEL TWA) [1]	0,41 mg/m ³
Croatia	GVI (OEL TWA) [2]	0,1 ppm
Croatia	KGVI (OEL STEL)	0,8 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	0,2 ppm
Czech Republic	PEL (OEL TWA)	1 mg/m ³
Denmark	OEL TWA [1]	0,4 mg/m ³
Denmark	OEL TWA [2]	0,1 ppm
Estonia	OEL TWA	1,2 mg/m ³
Estonia	OEL TWA [ppm]	0,3 ppm
Estonia	OEL STEL	2,5 mg/m ³
Estonia	OEL STEL [ppm]	0,6 ppm
Finland	HTP (OEL TWA) [1]	0,41 mg/m ³
Finland	HTP (OEL TWA) [2]	0,1 ppm
Finland	HTP (OEL C)	0,81 mg/m ³
Finland	HTP (OEL C) [ppm]	0,2 ppm
France	VLE (OEL C/STEL)	1 mg/m ³
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	0,081 mg/m ³ (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 ³
Greece	OEL TWA [ppm]	0,25 ppm
Hungary	AK (OEL TWA)	0,08 mg/m ³
Hungary	CK (OEL STEL)	0,4 mg/m ³
Ireland	OEL TWA [2]	0,01 ppm (inhalable fraction and vapour)

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maleic anhydride (108-31-6)		
Ireland	OEL STEL [ppm]	0,03 ppm (calculated-inhalable fraction and vapour)
Latvia	OEL TWA	1 mg/m ³
Lithuania	IPRV (OEL TWA)	1,2 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	0,3 ppm
Lithuania	TPRV (OEL STEL)	2,5 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	0,6 ppm
Poland	NDS (OEL TWA)	0,5 mg/m ³
Poland	NDSch (OEL STEL)	1 mg/m ³
Portugal	OEL TWA	0,01 mg/m ³
Romania	OEL TWA	1 mg/m ³
Romania	OEL TWA [ppm]	0,25 ppm
Romania	OEL STEL	3 mg/m ³
Romania	OEL STEL [ppm]	0,75 ppm
Slovakia	NPHV (OEL TWA) [1]	0,41 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	0,1 ppm
Slovenia	OEL TWA	0,41 mg/m ³
Slovenia	OEL TWA [ppm]	0,1 ppm
Slovenia	OEL STEL	0,41 mg/m ³
Slovenia	OEL STEL [ppm]	0,1 ppm
Spain	VLA-ED (OEL TWA) [1]	0,4 mg/m ³
Spain	VLA-ED (OEL TWA) [2]	0,1 ppm
Sweden	NGV (OEL TWA)	0,2 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	0,05 ppm
Sweden	KTV (OEL STEL)	0,4 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	0,1 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	1 mg/m ³
United Kingdom	WEL STEL (OEL STEL)	3 mg/m ³
Norway	Grenseverdi (OEL TWA) [1]	0,8 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	0,2 ppm
Norway	Korttidsverdi (OEL STEL)	2,4 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	0,6 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	0,4 mg/m ³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	0,1 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	0,4 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	0,1 ppm (aerosol, vapour)
Australia	OES TWA [1]	1 mg/m ³
Australia	OES TWA [2]	0,25 ppm
Canada (Quebec)	VEMP (OEL TWA)	1 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	0,25 ppm
USA - ACGIH	ACGIH OEL TWA	0,01 mg/m ³ (inhalable fraction and vapor)

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maleic anhydride (108-31-6)		
USA - IDLH	IDLH	10 mg/m ³
USA - NIOSH	NIOSH REL TWA	1 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	0,25 ppm
USA - OSHA	OSHA PEL TWA [1]	1 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	0,25 ppm

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. 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 Section 7 for information on safe handling. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
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 quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): goggles
Body protection	: Wear suitable protective clothing. Long sleeved 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 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. Avoid release to the environment.

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

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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	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: 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
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information 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

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. heat, UV: Polymerisation can occur.

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10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents . Strong bases . Strong acids . See Section 7 for information on safe handling.

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

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

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
methanol (67-56-1)	
LD50/oral/rat	6200 mg/kg
LD50/dermal/rabbit	15840 mg/kg
LC50/inhalation/4h/rat (ppm)	22500 ppm (Exposure time: 8 h)
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)

HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30	
Kinematic viscosity	No data available

Other adverse effects : Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child.
Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other information

Other adverse effects : Causes damage to organs through prolonged or repeated exposure, Suspected of damaging the unborn child.
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.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Styrene (100-42-5)	
LC50 - Fish [1]	3,24 – 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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 - 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)
EC50 - Other aquatic organisms [2]	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [1]	1,4 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	0,46 – 4,3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0,72 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	0,15 – 3,2 mg/l (Species: Pseudokirchneriella subcapitata [static])

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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)

Dibenzoyl peroxide (94-36-0)	
LC50 - Fish [1]	0,0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])

methanol (67-56-1)	
LC50 - Fish [1]	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
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)
NOEC(200h), fish, Chronic, Oryzias latipes (Ricefish)	7900 mg/l

maleic anhydride (108-31-6)	
LC50 - Fish [1]	75 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	42,81 mg/l (48h, OECD 202)
EC50 72h - Algae [1]	29 mg/l (Species: Desmodesmus subspicatus)
EC50 72h - Algae [2]	74,35 mg/l (72h, Pseudokirchneriella subcapitata), OECD 201)
ErC50 algae	74,34 (72h, Pseudokirchneriella subcapitata), OECD 201) 29 mg/l (Species: Desmodesmus subspicatus)
NOEC (chronic)	10 mg/l (10 days, Daphnia magna)

ethylene dibenzoate (94-49-5)	
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)

12.2. Persistence and degradability

HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30	
Persistence and degradability	No additional information available.

Styrene (100-42-5)	
Biodegradation	Readily biodegradable

Dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable.

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maleic anhydride (108-31-6)	
Persistence and degradability	Readily biodegradable (OECD 301B).

ethylene dibenzoate (94-49-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

Styrene (100-42-5)	
BCF - Fish [1]	13,5
Partition coefficient n-octanol/water	2,95
Bioaccumulative potential	Does not bioaccumulate.

Dibenzoyl peroxide (94-36-0)	
Partition coefficient n-octanol/water	3,2 (at 22 °C (at pH 7.02)
Bioaccumulative potential	Low potential.

methanol (67-56-1)	
BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water	-0,77

maleic anhydride (108-31-6)	
BCF - Fish [1]	(hydrolysis)
Partition coefficient n-octanol/water	-2,36 (at 19.8 °C (at pH 4)
Partition coefficient n-octanol/water (Log Kow)	- 2,61 (19,8 °C, OECD 107)

ethylene dibenzoate (94-49-5)	
Bioconcentration factor (BCF)	2,74
Partition coefficient n-octanol/water	3,75 (at 30 °C (at pH 7.7)
Bioaccumulative potential	Low potential.

12.4. Mobility in soil

HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30	
Mobility in soil	No data available
Ecology - soil	No data available.

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Styrene (100-42-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	352 (20°C)

maleic anhydride (108-31-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,63

12.5. Results of PBT and vPvB assessment

HaC8, HaC10, HaC12, HaC16, HaC20, HaC24, HaC30	
Results of PBT assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Styrene (100-42-5)	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
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
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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effects

: No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue
(2001/573/EC, 75/442/EEC, 91/689/EEC)

: This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
150110* - packaging containing residues of or contaminated by dangerous substances .

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
1866	1866	1866	1866	1866
14.2. UN proper shipping name				
RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	Resin solution (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)
Transport document description				
UN 1866 RESIN SOLUTION (Styrene), 3, III, (D/E)	UN 1866 RESIN SOLUTION (Styrene), 3, III	UN 1866 Resin solution (Styrene), 3, III	UN 1866 RESIN SOLUTION (Styrene), 3, III	UN 1866 RESIN SOLUTION (Styrene), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
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.				
Not restricted for transport by rail, overland and sea according ADR/RID chapter 2.2.3.15 and IMDG 2.3.2.5				

14.6. Special precautions for user

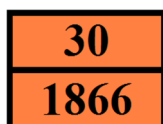
Special precautions for user

: No data available

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- Overland transport

Transport regulations (ADR)	:	No good of class 3 according to ADR/RID chapter 2.2.3.1.5
Classification code (ADR)	:	F1
Limited quantities (ADR)	:	5I
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Special packing provisions (ADR)	:	PP1
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T2
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	



Tunnel restriction code	:	D/E
EAC code	:	•3Y

- 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."
Special provisions (IMDG)	:	223, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
Special packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	TP1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Miscibility with water depends upon the composition.

- Air transport

PCA Excepted quantities (IATA)	:	E1
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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)
 Classification code (ADN) : F1
 Limited quantities (ADN) : 5 L
 Excepted quantities (ADN) : E1
 Equipment required (ADN) : PP, EX, A
 Ventilation (ADN) : VE01
 Number of blue cones/lights (ADN) : 0

- Rail transport

Transport regulations (RID) : No good of class 3 according to ADR/RID chapter 2.2.3.1.5
 Classification code (RID) : F1
 Limited quantities (RID) : 5L
 Excepted quantities (RID) : E1
 Packing instructions (RID) : P001, IBC03, LP01, R001
 Special packing provisions (RID) : PP1
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T2
 Portable tank and bulk container special provisions (RID) : TP1
 Tank codes for RID tanks (RID) : LGBF
 Transport category (RID) : 3
 Special provisions for carriage – Packages (RID) : W12
 Colis express (express parcels) (RID) : CE4
 Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

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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(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

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
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	

Germany

Regulatory reference

: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

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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
Listed in the 12. BImSchV (Annex I) under: 1.3.2
Quantity threshold for operational area under § 1 para. 1
- Sentence 1: 200000 kg
- Sentence 2: 500000 kg

Netherlands

Waterbezwaarlijkheid : categorie Z(1) - niet-afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/ mutageniteit/ reprotoxiciteit/ bioaccumulerend vermogen/ toxiciteit of persistentie)
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische 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;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. : FOR 2002-07-16 nr 1139: Forskrift om klassifisering, merking mv. av farlige kjemikalier; Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP); FOR 2008-05-30 nr 516: Forskrift om registrering, vurdering, godkjenning og begrensning av kjemikalier (REACH-forskriften)

Poland

This safety datasheet has been prepared according to Polish legislation. : Not applicable

15.2. Chemical safety assessment

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

For the following substances of this mixture a chemical safety assessment has been carried out
Styrene Dibenzoyl peroxide

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methanol
maleic anhydride
ethylene dibenzoate

SECTION 16: Other information

Indication of changes:

1.2	Main use category	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
3	Composition/information on ingredients	Modified	
4.2	Most important symptoms/effects, both acute and delayed	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
9.2	Other safety characteristics	Added	
9.2	Information with regard to physical hazard classes	Added	
10.4	Conditions to avoid	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.1	UN number or ID number	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Modified	
15.1	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	Added	
15.1	Waterbezwaarlijkheid	Modified	

Abbreviations and acronyms:

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	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
	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)
	ABM = Algemene beoordelingsmethodiek
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWG = European waste catalogue
	LL50 = Median lethal level
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	VOC = Volatile organic compounds

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI. 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:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4

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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
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.
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

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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
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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